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1
           IN THE UNITED STATES DISTRICT COURT
 2
          FOR THE WESTERN DISTRICT OF WISCONSIN
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 4
    WILLIAM WHITFORD, et al.,
 5
               Plaintiffs,
6
    -vs-
                                    ) Case No.
                                    ) 15-CV-421-bbc
7
    GERALD NICHOL, et al.,
8
               Defendants.
9
10
11
                VIDEOTAPED DEPOSITION OF
12
13
               RONALD KEITH GADDIE, Ph.D.
14
           TAKEN ON BEHALF OF THE PLAINTIFFS
15
16
               IN OKLAHOMA CITY, OKLAHOMA
17
                     ON MARCH 9, 2016
18
19
20
21
22
23
24
            REPORTED BY: SUSAN NARVAEZ, CSR
25
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	101, et al		
	Page 2	Page	<b>4</b>
1	APPEARANCES	1 STIPULATIONS	
2	For the Plaintiffs:	2 It is hereby stipulated and agreed by	
3		3 and between the parties hereto, through their	
4	Douglas M. Poland Attorney at Law	4 respective attorneys, that the deposition of	
5	10 East Doty Street Suite 800	5 RONALD KEITH GADDIE, Ph.D., may be taken of	m
6	Madison, WI 53703	6 behalf of the Plaintiffs on March 9, 2016, in	11
7	Peter G. Earle Attorney at Law		
8	839 N. Jefferson Street #300		
9	Milwaukee, WI 53202	8 Certified Shorthand Reporter for the State of	
10	For the Defendants:	9 Oklahoma, pursuant to the Federal Rules of	
11	Brian P. Keenan	10 Civil Procedure, by notice and subpoena.	
12	Assistant Attorney General Wisconsin Department of Justice	11	
13	P.O. Box 7857 Madison, WI 53707-7857	12	
14	madison, wi 33/07-7637	13	
	For the Witness:	14	
15	Jason Glidewell	15	
16	Attorney at Law 516 East Central	16	
17	Anadarko, OK 73005	17	
18	Also Present:	18	
19	John Highfield, Videographer	19	
20	, <u></u>	20	
21		21	
22		22	
23		23	
24		24	
25		25	
1	Page 3		÷ 5
2	TABLE OF CONTENTS	1 THE VIDEOGRAPHER: We are on the	
3	PAGE	2 record. Today's date is March 9, 2016, and	
	STIPULATIONS	3 time is 9:09 a.m. We are here to videotape the	
4	EXAMINATION BY MR. POLAND 6	4 deposition of Ronald Keith Gaddie in the case	
5	EXAMINATION BY MR. KEENAN	5 styled Whitford versus Gerald Nichol, et al.	
6	REPORTER'S CERTIFICATE 249	6 Case Number 15-CV-421-bbc, filed in U.S.	
7		7 District Court in the Western District of	
8	EXHIBITS		
9	NO DECOREDATON	8 Wisconsin.	
10	NO. DESCRIPTION PAGE	9 We are at Dodson Court Reporting in	
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Whitford; et al vs Nichol; et al

1 RONALD KEITH GADDIE, Ph.D.

- 2 of lawful age, being first duly sworn, deposes
- 3 and says in reply to the questions propounded
- 4 as follows:
- 5 \*\*\*\*\*\*
- **6** EXAMINATION
- 7 BY MR. POLAND:
- 8 Q. Good morning, Dr. Gaddie.
- 9 A. Good morning, Mr. Poland. How are
- **10** you?
- 11 Q. I'm well. Thanks. And yourself?
- 12 A. Doing well.
- 13 Q. Good. Would you please state your
- 14 full name and spell it for the court reporter?
- 15 A. Ronald Keith Gaddie, R-o-n-a-l-d,
- 16 K-e-i-t-h, G-a-d-d-i-e.
- 17 Q. Dr. Gaddie, is it okay if I refer to
- 18 you as Dr. Gaddie or would you prefer Professor
- **19** Gaddie?
- 20 A. Whatever you're comfortable with,
- 21 Counselor.
- 22 Q. Very good. Now, Dr. Gaddie, you have
- been deposed before, correct?
- 24 A. Yes.
- 25 Q. And several times in the past?

1 can take a break for your convenience when you

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Page 9

- 2 request one. Okay.
- **3** A. Very good. Thank you.
- 4 Q. For the sake of the court reporter and
- 5 for the clarity of the record, we'll both need
- 6 to try not to talk over one another. I know
- 7 from previous experience that you're a little
- 8 bit more deliberate in your answers than I am
- 9 in my questions in terms of the speed. So
- 10 please wait to answer a question until I finish
- $\,$  it, and I'll do my very best not to talk over
- you until you're fully complete with your
- 13 response.
- 14 A. Very good.
- 15 Q. Now, Dr. Gaddie, you're appearing
- today pursuant to a subpoena, correct?
- 17 A. That's correct.
- 18 (Exhibit No. 30 marked.)
- 19 Q. I'm going to ask the court reporter --
- oh, she's already marked it as Exhibit Number
- 21 30. I'm going to hand a copy of that to you.
- Dr. Gaddie, have you seen Exhibit 30
- 23 before?
- 24 A. Yes.
- **25** Q. When did you see Exhibit Number 30?

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1 A. It was served on me sometime in

- **2** February. I don't remember the exact date. I
- 3 believe it was on a Sunday.
- 4 Q. Very well. Now, you have counsel
- 5 representing you here today, correct?
- 6 A. Yes.
- 7 Q. And did you retain your counsel?
- 8 A. Yes.
- **9** Q. Are you paying for your counsel
- 10 yourself?
- 11 A. Counsel is a long-time colleague and
- 12 friend, and he is appearing here on my behalf.
- 13 Q. Very good. So there's no one else who
- is paying for your counsel's time today?
- **15** A. That is correct.
- 16 Q. Now, attached to the subpoena that you
- 17 received in February is a rider or a document
- 18 attachment. Exhibit "A" it's called. Do you
- 19 see that?
- 20 A. Yes, I'm looking at that now.
- 21 Q. And you see that it asks you to
- 22 produce certain designated materials in
- response to the subpoena, correct?
- 24 A. Yes.
- 25 Q. Now, did you in fact look for and

1 A. Yes.

- 2 Q. Including in the Baldus versus Brennan
- 3 case in 2012, correct?
- 4 A. Yes.
- 5 Q. So you're not a stranger to having
- 6 your deposition taken, I assume?
- 7 Å. No.
- 8 Q. All right. Let's just run through a
- 9 couple of the basics so we get on common ground
- 10 here. You understand that you are under oath
- today and you do need to testify truthfully?
- 12 A. Yes.
- 13 Q. Do you understand that your deposition
- may be played in court during the trial of this
- 15 case, which is titled Whitford versus Nichol?
- 16 A. Yes.
- 17 Q. If you don't understand a question
- when I ask it, please let me know that and I
- would be happy to restate it for you so that
- you can understand it and answer it.
- 21 A. I understand.
- 22 Q. And I don't know exactly how long
- we'll go today, but if you do need a break at
- 24 any time, please let me know. We won't break

while a question is pending, but otherwise we

Whitford; et al vs Nichol; et al

1 produce documents in response to the subpoena?

- **2** A. I have exhaustively produced
- 3 everything in my possession in response to the
- 4 subpoena.
- 5 Q. Very good. So I'm going to start out
- 6 by asking you where you looked for materials
- 7 and then we'll talk about how they got produced
- 8 and we'll mark that as an exhibit. So where
- 9 did you look for materials in response to the
- 10 subpoena?
- 11 A. I looked on all the computers in my
- possession and then examined my e-mails.
- 13 Q. How many computers do you have in your
- **14** possession?
- 15 A. Oh, my goodness. Several. Several.
- 16 Several laptops, desktop machine, notebooks, so
- on and so forth. So two primary computers that
- 18 I use, though, two laptops.
- 19 Q. Do you still have the computers that
- you used when you participated as a consultant
- 21 working with the Wisconsin state senate and
- assembly with Michael, Best & Friedrich in
- 23 2011?
- 24 A. No.
- 25 Q. I'm going to come back to that in just

- 1 role as a consultant with the Wisconsin
- 2 legislative redistricting in 2011?
- 3 A. Not so much a loss of possession.
- 4 University computers turn over over time. So

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- 5 the machine -- it's been four years since I did
- 6 that work. And one of the machines that I used
- 7 for that job was a former university machine, I
- 8 believe, that actually had a metadata code on
- 9 it CAS. When I change over computers I
- transmit any files that I have from computer to
- 11 computer. I have a university -- I have a
- university IT guy that transfers files over.
- 13 Sometimes all files don't migrate. I hope that
- 14 they do. But I'm working entirely on an Apple
- 15 Pro Book now, which is the second Pro Book that
- 16 I've been using. I was using one back during
- 17 the -- back during the Wisconsin redistricting
- as well. That one had its memory cleaned and
- was given to my daughter after the university
- 20 turned possession over to me.
- 21 So what happens is, as these machines
- 22 have failed, I've migrated on to new machines.
- 23 Q. Okay. And so I believe you did --
- 24 your consulting work that you performed was in
- 25 2011, correct?

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- 2 first. Are you appearing here today in your

a second. Let me ask you another question

- 3 capacity as a fact witness?
- 4 A. As a fact witness, yes.
- 5 Q. Have you been asked to provide any
- 6 kind of expert opinions in this particular
- 7 case, Whitford versus Nichol?
- 8 A. No.
- 9 Q. I think that we can agree, and we had
- a little colloquy about this before the
- 11 deposition started. We are not seeking to take
- any discovery of you as an expert witness.
- You've not been tendered as an expert witness,
- and so this is strictly a fact deposition here
- today. I want to make that clear.
- Nonetheless, there are some questions we're
- 17 going to have that arise out of the work that
- you did as an expert back in 2011. Okay? Just
- 19 to make sure you understand that. I'm not
- 20 going to ask you opinion types of questions,
- but I may ask you facts about the work that you
- 22 did while you were an expert.
- 23 A. Yes.
- 24 Q. When did you lose possession or
- 25 custody of the computers that you used in your

- 1 A. That is correct.
- 2 Q. And so we'll just separate that out
- 3 from the work that you performed as a
- 4 testifying expert on behalf of the government
- 5 accountability board in late 2011. I'm sorry.
- 6 Yeah, late 2011, 2012, correct?
- 7 A. Okay. Very good.
- 8 Q. Were you able to confirm whether all
- 9 of the files that you had and the metadata from
- your work as a consultant on the Wisconsin
- redistricting in 2011 was migrated over to
- computers that you now have in your possession?
- **13** A. I don't know.
- 14 Q. Do you know when those computers that
- you used for the redistricting in Wisconsin in
- 16 2011, when those computers were decommissioned
- or used for other purposes?
- **18** A. I don't recall. I've had turn over of
- several machines in the last five years.
- 20 Q. Do you believe it was after the Baldus
- versus Brennan litigation was concluded?
- 22 A. I believe so, yes.
- 23 Q. So in terms of responding to the
- subpoena that was served on you in this case,
- you looked at the computers that are in your

- 1 possession now, correct?
- 2 A. Yes.
- 3 Q. All right. Are there any other places
- 4 where you looked for materials responsive to
- the subpoena?
- 6 A. No.
- 7 Q. Do you ever use any kind of cloud
- storage?
- 9 A. As a general rule, no.
- 10 Q. And do you know when I refer to cloud
- storage, I mean things like Drop Box or
- 12 Box.com?
- 13 A. Yeah, I've started using Drop Box and
- 14 Base Camp only in the last couple of years.
- 15 Q. And Drop Box I'm familiar with. You
- said Base Camp?
- 17 A. It's a Drop Box style file project
- 18 managing system. I use it for my university
- **19** work
- 20 Q. Okay. Did you use Drop Box or Base
- 21 Camp or any other types of cloud storage for
- 22 the work -- in connection with the work that
- you did in 2011 on the Wisconsin redistricting?
- 24 A. No.
- 25 Q. Did you use any other kind of

- 1 Q. Do you remember what you did with
- 2 anything that would have been in the banker's
- 3 box when you were done with the litigation?
- 4 A. No.
- 5 Q. Do you have it with you anymore?
- 6 A. No.
- 7 Q. Now, you did produce documents or
- 8 materials in response to the subpoena served on
- 9 you in this case, correct?
- 10 A. Yes.
- 11 Q. And you produced those a week ago, on
- 12 March 2, correct?
- 13 A. Yes, I did.
- 14 Q. Do you have with you what you produced
- a week ago on March 2?
- 16 A. (Witness indicates.)
- 17 Q. All right.
- 18 A. This flash drive.
- 19 Q. Flash drive. For the written record
- 20 -- the video will pick that up. For the
- 21 written record, it's what we call a flash
- 22 drive, a USB drive, a thumb drive. It goes by
- various names, correct?
- 24 A. Correct.
- 25 Q. Now, Dr. Gaddie, if you would hand

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Page 17

- 1 electronic media for storage of materials that
- 2 were associated with the work that you did in
- 3 2011 as a consultant? For example, flash
- 4 drives, CD-ROMs, DVDs, anything like that?
- 5 A. Nothing in my possession. Honestly,
- 6 I'm trying to remember if we used any flash
- 7 drives for the transmission and movement of
- 8 data. I just don't recall. Everything I kept,
- 9 I kept on the hard drive.
- 10 Q. And that was the hard drive of your
- 11 computer?
- 12 A. Yes.
- 13 Q. What about paper files? We've talked
- a little bit about electronic materials. What
- about paper files? Did you look through your
- office at all, file cabinets, anything like
- that for any paper files you may have?
- 18 A. I don't have any paper files left from
- 19 that re-map. In fact, the remarkable thing was
- 20 I set aside a banker's box for that trial, and
- 21 I think the only thing in there might have been
- my retention letter, and I don't even have that
- box anymore. I remember remarking on how empty
- 24 it was when we got done with litigation because
- **25** everything was electronic.

- 1 that to me, I'm going to have the court
- 2 reporter mark this as Exhibit Number 31.
- 3 (Discussion off the record.)
- 4 MR. EARLE: For the transcript, where
- 5 we attach exhibits to the transcript, when we
- 6 have an electronic file like this, is this
- 7 something we could produce onto a CD that we
- 8 would have in a pocket in the back of the
- 9 transcript?
- MR. POLAND: I think we probably
- 11 could.
- (Exhibit No. 31 marked.)
- 13 Q. (By Mr. Poland) Dr. Gaddie, the court
- 14 reporter -- we will mark this as Exhibit Number
- 15 31, but we're going to do some alterations of
- the exhibit sticker so it fits and it doesn't
- 17 impede our access to the flash drive. But I'm
- 18 going to hand you the flash drive.
- And Exhibit Number 31, the green Lexar
- 20 flash drive, does that contain all the
- 21 materials that you produced in response to the
- 22 subpoena?
- 23 A. Yes.
- 24 Q. And you can identify this flash drive
- in front of you as the one that you produced on

Whitford; et al vs Nichol; et al

1 March 2, correct?

2 A. Yes.

- 3 MR. POLAND: Now, we've also made two
- 4 copies of the flash drive for counsel as well.
- 5 And the caveat with the copies that we made is
- 6 I can't guarantee that the metadata is
- 7 identical to the metadata on the original copy
- 8 that Dr. Gaddie provided. If we reach -- if
- 9 anything comes up on this that raises questions
- about the metadata, we'll take a look at the
- 11 original result that way, if that's fair enough
- 12 for everyone.
- 13 Q. (By Mr. Poland) We're going to get
- 14 into the substance of the flash drive in a
- short time here. I want to go through
- 16 preliminary matters first.
- Now, you understand that the subpoena
- 18 that was served on you is in a case called
- 19 Whitford versus Nichol and it's pending in the
- 20 United States District Court for the Western
- 21 District of Wisconsin?
- 22 A. Yes.
- 23 Q. All right. Great. And you were not
- engaged in any manner by the Defendants in the
- 25 Whitford case to provide any kind of consulting

- 1 Q. You didn't talk to any of the experts
- 2 who have been retained by the Plaintiffs?
- 3 A. No.
- 4 Q. You didn't talk to me or to Mr. Earle,
- 5 correct?
- 6 A. That is correct.
- 7 Q. Did you review any materials to
- 8 prepare for your deposition other than looking
- 9 for the documents that you produced on the
- 10 flash drive that's Exhibit Number 31?
- 11 A. No.
- 12 Q. And you didn't meet with anybody other
- 13 than -- well, strike that question.
- You didn't meet with anybody to
- prepare for your deposition?
- 16 A. No.
- 17 Q. Did you meet with your counsel prior
- 18 to the deposition?
- 19 A. We talked briefly and he asked me if I
- was prepared for my deposition and I said yes.
- 21 Q. Okay. Very good. I'm not going to
- ask you any more about that.
- Have you ever spoken with Kevin St.
- 24 John before?
- 25 A. I don't believe so. If I have, I

Page 19

Page 21

- services during the Whitford litigation,
- 2 correct?
- 3 A. I have not been engaged in this
- 4 litigation by anybody.
- 5 Q. And so as we've talked about before,
- 6 your testimony today is as a fact witness, not
- 7 an expert witness, correct?
- 8 A. That is correct.
- 9 Q. Dr. Gaddie, what did you do to prepare
- 10 for your deposition today? And I'm referring
- 11 to other than what you did to respond to the
- subpoena-produced documents.
- **13** A. I prepared the response to the
- 14 subpoena-produced documents and I showed up
- 15 today.
- 16 Q. All right. Did you talk to anybody
- about your deposition today in preparation for
- 18 it?
- 19 A. No.
- 20 Q. You didn't talk to any -- to Mr.
- 21 Keenan at all?
- 22 A. No.
- 23 Q. You didn't talk to any of the experts
- 24 who have been retained by the Defendants?
- 25 A. No.

- 1 don't recall that name.
- 2 Q. All right. Have you spoken with a
- 3 Kevin St. John since July of last year?
- 4 A. Not that I can recall.
- 5 Q. No one has asked you to come to
- 6 Wisconsin to testify in the Whitford case?
- 7 A. No.
- 8 Q. Correct? Do you know when the trial
- 9 is scheduled to occur?
- 10 A. I have no idea.
- 11 Q. Now, you did testify as an expert in
- 12 the Baldus versus Brennan case four years ago
- 13 in 2012, correct?
- 14 A. That's correct.
- 15 Q. And your deposition was taken in that
- case in January of 2012, correct?
- 17 A. Yes.
- 18 O. This is Exhibit Number 32.
- 19 (Exhibit No. 32 marked.)
- 20 Q. Dr. Gaddie, I'm going to hand you a
- 21 copy of what the court reporter has marked as
- 22 Exhibit Number 32 and ask you to take a look at
- 23 it.
- 24 A. Yes.
- 25 Q. Can you identify Exhibit Number 32 for

Whitford; et al vs Nichol; et al

1 the record, please?

2 A. Yeah, this is my deposition from

- 3 January 20, 2012, which I believe was taken in
- 4 Milwaukee.
- 5 Q. And that's a transcript of the
- 6 deposition, correct?
- 7 A. Yes.
- 8 Q. Did you have a chance to read your
- 9 deposition transcript in the Baldus case?
- **10** A. Ever?
- **11** Q. Ever.
- 12 A. I'm sure I read it in preparation for
- 13 trial four years ago.
- 14 Q. To the best of your recollection, was
- 15 your deposition testimony that you gave in
- **16** Exhibit Number 32 true and correct?
- 17 A. Yes.
- **18** Q. Are you aware of any testimony that
- 19 you gave in your deposition in the Baldus case
- 20 in Exhibit Number 32 that is not correct or is
- 21 not accurate?
- 22 A. Based upon the testimony I gave at the
- 23 time, no.
- 24 Q. Is there anything that you've become
- aware of that you testified to at your

- 1 Q. And so you see that your examination
- 2 begins on Page 558 and concludes on 576 of the
- 3 transcript?
- 4 A. Yes.
- 5 Q. Have you ever had an opportunity to
- 6 read your trial testimony that you gave in the
- 7 Baldus case?
- 8 A. No.
- 9 Q. Never have?
- 10 A. I have never read my testimony in the
- 11 Baldus case.
- 12 Q. Okay. To your recollection, was your
- 13 testimony, trial testimony in the Baldus case,
- 14 true and correct?
- 15 A. Yes.
- 16 Q. Have you ever become aware of any
- 17 testimony that you provided in the Baldus trial
- that was not true or not correct?
- 19 A. No.
- 20 Q. Since the time that you testified at
- 21 trial in the Baldus case in 2012, have you been
- engaged by the State of Wisconsin or any
- 23 individual or entity associated with the State
- 24 of Wisconsin to provide consulting services
- with respect to legislative redistricting?

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Page 25

- 1 deposition since the time of the deposition
- 2 that you don't believe is accurate any longer
- 3 or true?
- 4 A. Not that I recall.
- 5 Q. Now, you also testified in the trial
- of the Baldus case in February of 2012,
- 7 correct?
- 8 A. Yes.
- 9 (Exhibit No. 33 marked.)
- 10 THE VIDEOGRAPHER: Please make sure
- all devices are muted.
- 12 Q. (By Mr. Poland) Dr. Gaddie, the court
- 13 reporter has handed you a copy of a document
- 14 that's been marked as Exhibit Number 33. Do
- you have that in front of you?
- 16 A. Yes, I do.
- 17 Q. Can you identify Exhibit Number 33?
- **18** A. This appears to be the trial
- 19 transcript of my testimony in Milwaukee from
- 20 February of 2012.
- 21 Q. Now, in Exhibit Number 33 do you see
- that there is, on Page 556 of the transcript,
- there's an indication of where your examination
- 24 appears in the transcript?
- 25 A. Yes.

- 1 A. No.
- 2 Q. Have you kept in touch with Joe
- 3 Handrick?
- 4 A. Yeah, socially.
- 5 Q. When was the last time you spoke with
- 6 Mr. Handrick?
- **7** A. I spoke with Joe sometime last year.
- 8 Periodic contact on social media, but we've not
- 9 had any telephone conversations in some months.
- 10 Q. Have you spoken with Mr. Handrick
- 11 since the time that the Whitford case was filed
- 12 in July of 2015?
- 13 A. We probably have spoken, yes.
- 14 Q. Have you spoken about the Whitford
- 15 case at all?
- **16** A. Only that it exists.
- 17 Q. Didn't discuss any of the allegations,
- 18 the claims in the case?
- 19 A. No.
- 20 Q. Did Mr. Handrick tell you anything
- about his views or his impressions of the
- 22 Whitford case?
- 23 A. No.
- 24 Q. Have you spoken with Adam Foltz since
- 25 the conclusion of the Baldus trial in 2012?

- 1 A. No.
- 2 Q. Have you spoken with Tad Ottman since
- 3 the conclusion of the Baldus trial in 2012?
- 4 A. No. Mr. Ottman and I have run across
- each other on social media, but we've not
- 6 spoken. To the extent we interact, it's about
- literature. He wrote a review of my novel.
- 8 O. When did you publish a novel?
- **9** A. Actually probably about the same time
- -- it was just before this trial in 2011.
- 2010, 2011. 11
- 12 Q. I probably asked you about that at
- some point in your deposition. 13
- Okay. So just social media then with 14
- Mr. Ottman? 15
- 16 A. Yes.
- 17 Q. Have you conversed with Mr. Ottman on
- social media about the Whitford case or the
- claims in the case at all? 19

2 the Baldus trial in 2012?

the Baldus trial in 2012?

you about the Whitford case?

13 Q. Fair enough. Now, back to your

- 20 A. No.
- 21 Q. Have you seen any postings by Mr.
- Ottman on social media about the Whitford case
- or the claims asserted in the Whitford case?
- 24 A. No.

3 A. No.

7 A. No.

12 here, no.

18 A. Correct.

15

17

20

23

24

25

25 Q. What about Jim Troupis? Have you

4 Q. What about Eric McLeod? Have you

8 Q. Has anyone contacted you, whether by

11 A. Other than being subpoenaed to appear

that were served in that case, correct?

19 Q. And we have one of the flash drives

(Exhibit No. 34 marked.)

phone, by mail, social media, et cetera, to ask

deposition in Baldus. In Baldus you produced a

flash drive with materials that were responsive

to the subpoena and other discovery requests

that you produced in the Baldus litigation and

it. So let's have it marked as Exhibit Number

we're going to mark it as an exhibit here because we are going to look at some files on

spoken with Eric McLeod since the conclusion of

- 1 Q. Dr. Gaddie, for the record I'm handing
- you a copy of what was marked in the Whitford
- case as Exhibit Number 34. This was Number 57

Page 28

Page 29

- to your deposition in the Baldus case.
- A. Yes.
- 6 Q. I also have copies of the flash drive
- for counsel. These, I believe, do preserve all 7
- the metadata from that flash drive. 8
- Now, we are going to get into looking 9
- 10 at some of the flash drives. So do you want to
- take a break here for just a minute and set it 11
- up? 12
- 13 A. Sure.
- Q. Can we do that? 14
- 15 THE VIDEOGRAPHER: Going off the
- record. The time is 9:33 a.m. 16
- (Recess.) 17
- THE VIDEOGRAPHER: We are back on the
- record. The time is 9:41 a.m. 19
- 20 Q. (By Mr. Poland) Now, Dr. Gaddie,
- during the break we set up a computer here, a
- Macbook Air and we put into the USB ports on
- the Macbook Air two different exhibits. One is
- the flash drive that you produced to us in the 24
- Whitford case, which is, I believe, Exhibit

Page 27

- spoken with Mr. Troupis since the conclusion of Number 31.
  - 2 A. Okav.
  - MR. EARLE: Oh. in the Whitford case? 3
  - MR. POLAND: Yes. 4
  - Q. (By Mr. Poland) And we also put into
  - one of the other USB ports a flash drive that
  - you produced in the Baldus case, which is 7
  - Exhibit Number 34?
  - A. Yes. 9
  - Q. And so you have those both -- those
  - are both in the computer in front of you there?
  - 12 A. Yes, I see them.
  - Q. And can you confirm that the flash
  - drive that has been marked as Exhibit Number 34
  - is in fact a copy of the Baldus Deposition
  - Exhibit 57, the flash drive you produced in
  - 17 that case?
  - 18 A. I can assume so. It's been four
  - years. But looking at the -- is this the
  - content in that drive over here? This looks 20
  - like the content that would have been on that
  - drive, yes.
  - Q. Now, comparing the content of the two 23
  - flash drives that you produced, the one in the
  - Baldus case and the one in this case, there's a

34.

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- difference in the number of files on each of 1
- 2 those flash drives, correct?
- 3 A. Yes, it appears so.
- 4 Q. All right. And can you see how many
- files were on the Baldus flash drive, which is
- Exhibit Number 34?
- 7 A. I can't tell exactly how many. There
- are many. I can't tell you how many, but there
- 9 are many.
- 10 Q. And there are fewer on the flash drive
- that you produced in this case, the Whitford
- case, correct? 12
- 13 A. Give me just a moment and let me
- examine. Yes. 14
- **15** Q. Can you explain why there are fewer
- files on the flash drive that you produced in 16
- this action, the Whitford action, than in the 17
- Baldus case?
- 19 A. I would assume -- again, in this case
- I produced all the files I had in my 20
- possession. So these files that I didn't --21
- the discrepancy in the files produced has to do 22
- with migration from machine to machine. I just
- don't have those files in my possession 24
- 25 anymore.

- MR. EARLE: It disappeared. Could you
- 2 repeat the name of that?
- MR. POLAND: Sure. It's 3
- Wisconsin election data.xlsx. It's a 10.7 4
- 5 megabyte file.
- 6 A. Yes.
- Q. (By Mr. Poland) Do you see that? 7
- A. Yes.
- Q. All right. Do you know, is there a 9
- way of telling from the metadata that you have
- on the flash drive when that document was 11
- created? 12
- 13 A. It was created on -- there is a way to
- identify that. The creation date is April 15,
- 15
- Q. And that is while you were working as
- a consultant on the Wisconsin legislative
- redistricting, correct?
- 19 A. Yes.
- Q. All right. Now, as I mentioned, we 20
- looked at the Baldus flash drive and could not
- find it among the materials that were produced.
- And so I'll make that representation.
- 24 A. Yes.
- 25 Q. Do you know why that document would

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Page 33

Page 32

- 1 O. Now, we also noticed as we looked at
- 2 what was on the flash drive that you produced
- 3 in Baldus and the flash drive that you produced
- 4 in the Whitford case that there are several
- files that you produced in the Whitford case 5
- had to do with legislative redistricting. Were

that were not produced in the Baldus case that

- you aware of that? 8
- A. No. 9
- 10 Q. Let's talk about each one of those.
- **11** A. Okav.
- 12 Q. All right. So what I'm going to ask
- 13 you to do is to pull up the directory with the
- flash drive that you produced in the Whitford 14
- case. All right? In this case. And that 15
- should be Exhibit Number 34. That's the green
- 17 flash drive. And do you have that up in front
- 18 of you?
- 19 A. Yes.
- 20 Q. All right. Now, the first one I want
- to ask you about is Wisconsin election data.
- 22 So that's Wisconsin and then there's an
- underscore, an empty space, election, and then 23
- underscore, empty space, election, and then
- underscore, empty space and then data.xlsx.

- not have been produced in the Baldus
- litigation?
- A. I have no idea.
- Q. When you produced materials in the
- Baldus litigation and you put them onto the
- flash drive that's now Exhibit Number 34, did
- you do that yourself? 7
- A. Honestly, I don't remember. I pulled
- -- there was so much data moving around. Any
- data that I produced, any documents I produced, 10
- analysis I generated that would have been on my
- machines I turned over at the time of the 12
- 13 litigation through counsel.
- Q. So at the time you were responding to
- the subpoena in the Baldus case in 2012, any
- data, documents, whatever materials you had
- 17 that were responsive you gave to counsel for
- the Defendants at that time, is that correct? 18
- A. Yes. 19
- Q. And then counsel -- did counsel
- actually create the flash drive that was
- provided to the Plaintiffs in that case?
- A. I would assume so. 23
- Q. You did not personally create that
- flash drive, is that correct?

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- 1 A. I don't believe so, no.
- 2 Q. Did you do anything to double check to
- 3 see whether all of the materials that you gave
- 4 to the counsel for the Defendants in the Baldus
- 5 case was actually included on the flash drive
- 6 that is marked as Exhibit Number 34 in this
- 7 case?
- 8 A. No.
- 9 Q. Did you have any discussions with the
- 10 counsel in the Baldus case about materials that
- should or should not be produced?
- 12 A. No.
- 13 Q. Just gave what you had to counsel and
- 14 you let them make those decisions, is that
- 15 correct?
- 16 A. I gave what I had to counsel, yes.
- 17 Q. All right. I'm going to ask you to
- take a look at another file now that is on the
- 19 flash drive you produced to us last week. And
- 20 this one is Wisconsin\_ 1.xlsx.
- You're there? Okay. Sorry. Is there
- a way of telling when that file was created,
- 23 Wisconsin 1.xlsx?
- 24 A. Yes. The metadata on the screen
- 25 indicates April 14, 2011.

- 1 A. I would have created this last file,
- 2 yes.
- 3 Q. The .sav file?
- 4 A. Yes.
- 5 O. What about the xlsx files that we
- 6 looked at before?
- 7 A. I would have to look in them to be
- 8 sure, but these would probably be -- these
- 9 would look like files that I would have
- 10 created, yes.
- 11 Q. And we'll take a little bit of a
- 12 deeper look at that in a little while.
- 13 A. Right. Yes.
- **14** Q. I just want to kind of run through
- 15 what we have now.
- 16 A. Right.
- 17 Q. All right. The next one I would like
- you to take a look at is Tad 1 05272011xlsx.
- 19 A. Yes.
- MR. EARLE: Could you read that again
- 21 for me?
- MR. POLAND: Sure. It's Tad
- 23 underscore -- actually the underscore is
- 24 actually a space underscore. So
- 25 Tad\_1\_05272011.xlsx.

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- 1 Q. And again, no way -- strike that
- 2 question.
- 3 Do you know why that particular file
- 4 was not produced in the Baldus case?
- 5 A. No.
- 6 Q. All right. I would like you to take
- 7 another look at another one. It's directly
- 8 below. It's Wisconsin\_2010\_1.sav. Do you see
- 9 that document?
- 10 A. Yes.
- 11 Q. Do you know when that was created?
- 12 A. April 19, 2011.
- 13 Q. Do you know why that document was not
- 14 produced in the Baldus case?
- 15 A. No.
- 16 O. Now. I notice that that has a file
- 17 extension of .sav. Do you see that?
- 18 A. Yes.
- 19 Q. Do you know what .sav means?
- 20 A. Yeah. And say file is a database file
- 21 extension that's used in SPSS, statistical
- 22 package for the social sciences.
- 23 Q. Are these, the three files that we've
- 24 looked at so far, are these files that you
- 25 created?

- 1 Q. (By Mr. Poland) And you're there?
- 2 A. Yes.
- 3 Q. All right. When was that file
- 4 created?
- 5 A. May 27, 2011.
- 6 O. Can you tell from the metadata who
- 7 created that?
- 8 A. No, not from what I'm looking at now.
- 9 Q. All right. Do you know whether just
- 10 looking at the file name whether it's a file
- that you believe you created?
- 12 A. I don't know if I created it. It's
- possible I did. This dating device is one that
- 14 I use from period to period, from time to time.
- 15 So it's possible I did. I just don't know. I
- 16 don't recall.
- 17 Q. The naming convention that's on the
- 18 file, is that what you're referring to?
- 19 A. I've used naming conventions like this
- 20 in the past and do currently, yes.
- 21 Q. If you were to open that file would it
- 22 give you a better idea of whether you created
- 23 it, do you think?
- 24 A. Yeah, because I'm not sure what's in
- 25 it.

Page 38 Page 40 1 Q. All right. Let's go ahead and open it 1 Q. Sure. 2 up then. **2** A. This spreadsheet is a -- can I scroll 3 A. Yes, that would be a file that I through for a moment? Let me review something created. 4 5 Q. All right. Now, I notice if you 5 This spreadsheet was created to actually go to the menu, I think it's the edit 6 estimate a partisan performance score for menu, and you open up properties -proposed districts in the Wisconsin assembly 7 plan based upon a variety of different A. Uh-huh. 9 Q. -- and if you click on the -- can you scenarios, simple scenarios. And that is why 9 do that or no? 10 it was created. It is not the only spreadsheet MR. EARLE: I can -- go off the of this sort. 11 11 Q. Who asked you to create this record? 12 12 spreadsheet, this particular spreadsheet? 13 MR. POLAND: That's fine. We can go 13 off the record. A. These were created -- I had agreed 14 15 THE VIDEOGRAPHER: Going off the with Joe Handrick to provide these types of record. The time is 9:53 a.m. spreadsheets to Adam Foltz, to himself and Adam 16 Foltz and Tad Ottman, for the legislature in (Discussion off the record.) 17 17 THE VIDEOGRAPHER: We're back on the the drafting process. So one thing we do, they 18 record. The time is 9:53 a.m. would create a map, then there would be part --19 19 20 Q. (By Mr. Poland) So Dr. Gaddie, I 20 there's electoral history data attached to it. understand that with the computer you're Those data were used to generate spreadsheets 21 21 working with now you can't actually access some of this sort that indicated how a district 22 22 of the properties of the file. But we looked would perform on a partisan measure under different scenarios. here in the break, and when I look at the 24 properties of the Tad\_105272011 file we were 25 Q. So this particular one that was

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- looking at, I see under statistics that it says
- last saved by CAS build. So that's C-A-S
- 3 b-u-i-l-d.
- 4 A. Yes.
- 5 Q. And you saw that on my computer?
- 6 A. Right.
- 7 Q. Can you tell me what CAS build is?
- 8 A. CAS build was an old -- it's an old
- Dell laptop that I was working on at the time
- that I used for data analysis.
- 11 Q. And we're going to look at a number of
- spreadsheets today. Whenever we see a document 12
- 13 that was either created by or modified by CAS
- build, that would indicate that it came from 14
- your Dell laptop? 15
- **16** A. That's correct.
- 17 Q. Do you recall creating either this
- 18 specific spreadsheet, this Tad\_1 and the rest
- of the name, spreadsheet? 19
- 20 A. Yes.
- 21 Q. Why did you create this particular
- spreadsheet?
- 23 A. This spreadsheet -- give me a minute.
- It's been awhile since we played with these
- 25 data.

- created that has Tad -- and that indicates Tad
- Ottman, is that correct?
- A. I would assume so, yes.
- 4 Q. And Mr. Ottman was a legislative aide
- for the Wisconsin state senate in 2011, is that
- correct? 6
- A. I believe so, yes. 7
- Q. So does this pertain specifically to
- the senate districts in Wisconsin? 9
- A. Well, if we look at this first set,
- these were assembly districts. But when you're
- creating an assembly district, it necessarily 12
- 13 pertains to the senate districts in Wisconsin
- because senate districts are pods of three
- assembly districts. So you can't draw one 15
- without the other.
- Q. Do you know why they asked you to
- create this kind of a spreadsheet? 18
- A. Well, what happened is when this
- redistricting started we talked about the types 20
- of measures that mapmakers need to have
- available to them. And I had been involved in 22
- the litigation phase in 2002 where among the 23 various items we looked at in the redistricting
- process was a partisan check, to look and see

Page 42 Page 44 -- to check the partisanship of districts. 1 Or what you can do is you can take the 2 Q. So I'm going to stop you there just a 2 actual election results, okay, the actual second because some of the judges -- we are in 3 outcomes of previous elections, you turn those front -- we'll be in front of a three-judge

- federal panel and some of the judges might not
- 6 be familiar with the legislative redistricting
- and the way this goes. 7
- A. Okay. 8
- 9 Q. Judge Crabb has presided over a
- redistricting case before, but the other judges
- may not have.
- **12** A. Okay.
- 13 O. So there are some terms that we might
- need to go back and explain in a little bit 14
- 15 more detail.
- 16 A. Right. Okay. When in litigation one
- of the concerns that will arise is whether or 17
- not too heavy of a partisan thumb has been
- placed on the crafting of a map by the 19
- 20 judiciary in crafting a map. And when we
- litigated in Wisconsin in 2011 and 2012, 2012, 21
- 22 one of the items we debated about and discussed
- in court was how you measure the weight of the
- partisan thumb -- the weight of the partisan 24
- thumb that was put on the map because different

map proposals were put forward by different

partisanship, partisan performance, how fair or

litigants in that case. And one of the things

that was done was a presentation of

7 A. It was back in 2002, spring of 2002.

how neutral or how biased was a map.

- into a dependent variable, an outcome of 4
- 5 interest, and then you regress using linear
- 6 regression those results onto these larger
- statewide measures. 7
- 8 The other thing you do is you attempt
- 9 to take into account whether or not there's an
- 10 incumbent running so that you can account for
- the incumbency impact. Again, it's been four 11
- years since I did this. But what we did is I 12
- had proposed to the map drawers that if they 13
- wanted to present a best estimate of partisan 14
- 15 impact so the lawmakers can understand the
- consequence of different maps, that a 16
- regression driven technique would be the best 17
- approach. So I set about building a regression
- equation using data that should have been 19
- 20 produced to generate estimates of partisanship,
- partisan behavior in those districts for
- 22 different district proposals.
- So what this -- what this spreadsheet 23
- is, is the consequence of applying one of those 24
  - models. If it is what I think it is, it's the

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- consequence of applying one of those models to
  - 2
  - know is, we know the statewide election 3
  - results, and we then put those data for each 4
  - district into the regression equation and that 5
  - gives us an estimated vote value for each 6
  - 7 district. And that's what's reported here,
  - 8 assuming no incumbent.
- A. Right. Yeah. And one of the things 9
- we took note of in that case, and this will be 10
- borne out in different documentation that's 11
- been produced, is that -- well, Judge 12

6 O. And this was in 2002?

**8** Q. Previous phase?

- 13 Easterbrook in particular had a particular
- fondness for regression driven model of 14
- partisanship. 15

2

3

9

- There are basically two ways you can 16
- 17 measure or you can estimate partisan change
- 18 when you redistrict. One is to use what's
- called a reconstituted election technique where 19
- we take either one or an index with several 20
- 21 statewide elections, exogenous elections, which
- 22 are elections that occur outside a district.
- Right? Higher levels of office. And we 23
- attempt to get a sense of a partisan average
- from that. 25

- a map generated by a map maker where what we

- If we look at the different columns it
- will say all 40, all 41, all 42. That's based 10
- upon moving the vote share for one party or the
- other up or down by one percentage point 12
- 13 increments statewide and then showing the
- impacts across the districts. 14
- Q. So was part of your engagement then in 15
- 2011 to act as a consultant to build this
- 17 regression model?
- A. Yeah, my job was to devise measures 18
- and consult with them about measures, and not 19
- simply partisanship measures, measures of 20
- compactness. Other measures, the integrity of
- counties, the integrity of city boundaries, the 22
- so-called good government principles of 23
- redistricting.
- 25 Q. I think we call them traditional

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1 redistricting?

2 A. Traditional redistricting criteria.

- 3 And also in particular where I actually spent
- 4 most of my time was trying to disentangle the
- 5 performance of the majority/minority districts
- 6 in Milwaukee County. And in particular, this
- 7 particular problem which we talked about
- 8 extensively last time of how to craft a Latino
- 9 majority senate district and Latino majority
- 10 assembly districts from Milwaukee County south
- 11 of the crosstown connector.
- 12 Q. But a significant part of your work
- that you were retained to do and that you did
- perform in 2011 had to do with the -- with
- building a regression model to be able to test
- the partisan makeup and performance of
- 17 districts as they might be configured in
- 18 different ways, correct?
- 19 A. Yes, that's correct.
- 20 Q. Now, we didn't see in any of the
- 21 materials that were produced any actual
- 22 regression model equation. Was there one that
- was produced?
- 24 A. I produced everything I had in my
- possession. I can -- I don't have it. It's

- redistrict we're trying to understand what the
- 2 near present and the near future might look
- 3 like. And subsequent elections are only as --
- 4 the use of this kind of analysis to understand
- 5 subsequent elections are only as good as the
- 6 willingness of the electorate to behave the way
- 7 they did in past elections. So things change.
  - So in regression analysis you have a
- 9 dependent variable and you have independent
- variable. So the dependent variable is the
- 11 outcome of interest. Okay? So if you think
- about it in terms of an algebra equation, y
- equals m x plus v, right? Where y is the
- result, m is the constant, x is an independent
- variable subject to change and v is the slope
- 16 coefficient, right? So old algebra, right? Y
- 17 equals m x plus v.
- **18** Q. I'm going to have to take your word
- **19** for that.

8

- 20 A. That's all right. That's all right.
- 21 So what you do is you load up all the data you
- can on election outcomes. Okay? And so you
- 23 get -- you start with the state legislative
- 24 election outcome for a particular legislative
- seat for the senate or for the assembly. And I

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- entirely possible that I generated it and I
- 2 lost the file or didn't save the file. I can
- 3 walk you through the specific inputs of it in
- 4 order to reconstitute it.
- 5 Q. Sure. Yeah, that would be helpful. I
- 6 might have to stop you along the way because I
- 7 might not understand very well.
- **8** A. Well, that's okay.
- 9 Q. But we'll take it step by step.
- 10 A. Okay. What we're trying to do when
- 11 you compute an equation like this -- and
- actually Ken Mayer did this in 2012 in
- 13 developing his partisan baseline measure. And
- 14 I basically replicated the model.
- 15 Q. This is one of those points where I
- need to stop you because you used the term
- 17 partisan baseline measure. Can you explain
- what partisan baseline measure is?
- 19 A. Okay. Well, partisan baseline measure
- would be the measure of partisanship for a
- 21 district, the measure of -- the level of party
- 22 strength. So --
- 23 Q. Not with respect to any particular
- 24 election?
- 25 A. No. No. Well, remember, when we

- 1 can't remember if I did this analysis using
- 2 precinct level data or district level data.
- 3 The outcomes are produced at the district
- 4 level. I would have to go back and review the
- 5 content if it's still around. You will want to
- 6 ascertain this.
- 7 But ideally what you do is you work
- 8 with the highest resolution data you have,
- 9 which would be a VTD or precinct level data.
- 10 Q. The smallest population?
- 11 A. The smallest geographic unit, yeah.
- 12 That gives you the biggest end.
- 13 Q. Is it the smallest geographic or is it
- the smallest on a population basis that you're
- 15 looking at?
- 16 A. What are the smallest units that
- 17 electorates have been divided into that we can
- 18 know what their vote cast was. Okay? So more
- observations is better than fewer. Okay? So
- 20 precincts are better than counties, for
- 21 example. Precincts are better than districts.
- 22 So VTD data.
- And what you do is you look at the --
- so you've got this outcome, vote for Democrat
- 5 for assembly, and you load that up for the

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7

whole state for every observation you have.

- 2 And then the next question you ask is, was
- there an incumbent running from one party or 3
- the other. You load that data up. Okay. And 4
- 5 that's just indicated by a one or a zero. And
- 6 that's one of your explanatory variables.
  - Incumbents have an advantage in
- running for reelection. So presumably if a 8
- Democratic incumbent is running they probably 9
- 10 do about nine points better than if the seat is
- open. So if we had incumbents running we want 11
- 12 to net out the incumbency effect because that's
- going to create a bias in understanding how a
- district is actually going to perform. 14
- 15 Then what you do is you need to have
- some other indicators of partisanship, past 16
- partisan performance. So you look at past 17
- elections, elections for governor or secretary 18
- of state, other statewide elected offices. 19
- 20 Now, of course, these are all going to have
- some biases introduced by whether or not an 21
- 22 incumbent is running.
- But what you expect to see is that 23
- when Democrats run strong statewide, you expect 24
- them to run a strong down ticket. Okay? So

- that indicate to you, okay, yeah, this is the
- 2 -- this is how much we would expect the change

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- for -- the vote for assembly to change if we 3
- increase the vote for governor by one point, 4
- 5 for example. You know, any grad student who's
- 6 had an introductory methods class can run this
- stuff these days. It's pretty straightforward. 7
- 8 So again, it's been five years since I
- ran these equations, but the equations should 9
- look something like that.
- Q. You mentioned that Dr. Mayer had done 11
- -- Ken Mayer had done the same thing? 12
- A. In 2002, yes. In fact, one of the
- things up to that point in time is that there
- 15 had always been a preference for reconstituted
- elections when we went to court. You just look 16
- at the change in the governor's vote from 17
- district to district before and after
- redistricting and call it done. Right? 19
- 20 Judge Easterbrook was very impressed
- with Ken's use of the regression models. And 21
- my thinking was, well, if we have to talk about 22
- partisanship, let's just get it right and save 23
- everybody some time arguing over it and let's 24
- just measure it best way as possible, every way

- you would expect there would be some relationship. So what we attempt to do is 2
- 3 account for the amount of change in the
- assembly vote that arises from -- let's say if 4
- 5 there's a one point change in the Governor's
- vote, what is the proportional change in the 6
- vote for assembly. If there's a one point 7
- 8 change in the attorney general vote, is there a
- 9 one point change for secretary of state and so on and so forth. 10
- So what you try and do is you try and 11
- -- just try and get the best fit you can on the 12
- 13 date. It doesn't mind you which election is
- more or less important. You're just trying to 14
- get a really good fit on the data so there's 15
- not a lot of error in guessing the way a 16
- 17 district will perform. Okay? In guessing the
- 18 outcome of interest.
- And that gives you an equation that's 19
- going to have some numbers associated with it. 20
- 21 It will be a thing called a constant or an
- intercept, which is, if you hold the value of 22
- everything else to zero, this is the expected 23
- vote for one party or the other. And then you 24
- can -- you'll have a set of slope coefficients

- possible and in the manner that the court has a
- preference for.
- Q. Is the approach that you used in 2011
- is that similar to what Ken Mayer had used in
- 2002 that Judge Easterbrook was impressed with?
- A. Yeah. I can't promise it was the
- same, but it was certainly very similar, yes.
- Q. Did you ever see Dr. Mayer's equation
- that he used to build his regression model?
- A. Well, I mean, it was produced in his
- documents in 2002, so it's an easy thing to
- remember, which is you regress the legislative 12
- 13 votes on to past elections.
- Q. So is there actually -- would there be
- some kind of a formula that's used then that
- you would run everything through to do this?
- A. Well, the formula -- there's a formula 17
- that's the product of the statistical analysis 18 and then there's a formula that you -- formula 19
- that arises from that that's used to generate 20
- the partisanship measures. The question is,
- and I'm sure we're going to look, the question 22
- is if I were doing it now, I would just 23
- generate a macro that programs it in and put in
- the information and have it generate. I can't

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- would be one approach to doing it.
- 3 O. Okay. So under what we're seeing then

1 recall if I did it that way or not. But that

- in the spreadsheet that we started out looking
- at, the Tad 1 ---
- 6 A. Yes.
- 7 Q. -- 05252011, that is a measure of the
- partisanship with the current -- with the
- configuration that was put through your
- 10 regression model, is that correct?
- 11 A. Yeah. Counsel, I'm going to ask you
- to repeat the question because I was a little 12
- 13 distracted.
- 14 Q. That's fine. I'm going to ask the
- court reporter to read it back. 15
- (Record read by reporter.) 16
- 17 A. I believe so, yes. And so, yes.
- **18** Q. And so how do you tell, just looking
- at this file on the screen, this Tad 1052 and 19
- 20 so forth on the file, how do you tell what the
- measure of partisanship is by looking at this 21
- 22 spreadsheet?

5 Q. 51.2%?

8 O. Okay.

2 3

7

10

11

12 13

14

15

16 17

18

19

21

- 23 A. Okay. It's pretty straightforward.
- The values are bounded from zero to one, and

were to express them in percentages, for

a 0.5122. That would be 52.12%.

6 A. 52 -- oh, yeah, I'm sorry. 51 -- it

9 A. And then if you look -- if we were to

-- that is it if this was generated from the

still be the same thing. It would be the

regression equation. If it were generated from

an average of reconstituted elections, it would

average of the statewide vote. But assuming

this is the product of the regression equation,

the regression would have estimated a vote

value based upon a level of strength for one

expected vote in that district would be 51.22%.

would be 51.22%, yes.

example, if we were to look at Row 1 and look

at Column K. Okay? So it's the -- and there's

these are proportions of the vote. So if we

either a Democrat or a Republican two-party

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- performance measure. I just -- I can't recall
- which. I can't recall which way we scaled the 3
- positive and the negative.
- Q. Do you remember when you actually
- 6 built your regression model in 2011, created
- 7
- A. No. I may have -- I don't recall
- doing any data analysis on this case before 9
- 10 April 15. It may have been as early as that
- weekend. It may have been later. Probably in
- April. 12
- 13 Q. All right.
- 14 A. Yeah.
- Q. It certainly would have been before we 15
- -- before this spreadsheet was created that we
- have up on the screen right now, correct? 17
- A. Yes.
- Q. After you built your regression model, 19
- 20 did the consultants that you were working with
- or the consultant, Joe Handrick, and then the
- legislative aides, Tad Ottman and Adam Foltz, 22
- did they have access to that regression model 23
- as well?
- 25 A. I would have provided it to them. I'm
  - trying to recall if I gave them the equation to
- work off of or if I generated estimates off of
- 3 my computer. If I generated estimates off of
- my computer, it should be in the documentation
- 5 that's been produced.
- Q. In other words, in that case you would 6
- have built the regression model, they would 7
- have given you certain map configurations, you
- 9 would have run your regression, you would have
- found what the partisan bias would have been
- and then reported that back to them?
- A. I would have run the data through and
- 13 produced a document like this, yes.
- Q. And I believe you testified back in
- 2011 you didn't actually draw any of the 15
- configurations of the districts, correct?
- 17 A. That is correct.
- Q. That was all done by Tad Ottman, Adam 18
- Foltz and Joe Handrick?
- A. That is correct. 20
- Q. Now, once you've run a particular
- configuration of districts through your 22
- regression model and you've calculated what the 23
- partisan bias is one way or the other, 24
- Republican or Democrat, that provides feedback

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this is measuring?

22 A. Immediately offhand, no, because, like

party or the other in the state, and the

20 Q. And do you know which particular party

- I said, it's been four years since I've looked 23
- at this. I would have to -- if I knew what a
- particular district was, my guess is that it's

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Nichol; et al Page 58 Page 60 1 on the partisan makeup of that district, record. The time is 10:22 a.m. 2 correct, as projected? Q. (By Mr. Poland) Dr. Gaddie, before we 3 A. Yes. Let me clarify, though. I want broke we were looking at a number of files to make sure that you have the completely that, at least based upon my review, I thought correct understanding of the process. There's 5 were on the flash drive that you provided for 6 one body of data of elections from the past 6 us a week ago today in this case but were not decade. Okay? So we run the regression on what was marked as Baldus Exhibit 57. 7 7 That's the flash drive you produced in 2012. equation on those data and that gives us a 8 8 single equation to estimate the partisan Mr. Keenan has informed me that he believes 9 10 performance of a constituency. Okay? And then some of those files actually might have been on what you do is you're able to take individual the Baldus flash drive. So we're going to go 11 11 districts as crafted by the map maker which through a few more of these and if we have to 12 12 will have data on the elect -- the go back and correct that record, we will. 13 reconstituted elections, the statewide 14 A. Very good. Very good. 14 15 elections that were part of the previous Q. The next file that I wanted to ask you regression equation. Okay? So we create a about in the flash drive that you produced in 16 16 the Whitford case is Tad1.sav. regression equation, it creates a set of slope 17 17 coefficients that are associated with each A. Right. 18 predictor election that goes into estimating Q. Are you there? 19 19 A. Yes. 20 the vote performance. 20 O. What is Tad1.sav? What you then do for every district is 21 21 22 A. This is an SPSS data file of the sort 22 you say, well, in this reconstituted district that I described earlier. the gubernatorial vote is this, the secretary 23 of state vote is this, attorney general vote is Q. Do you know why the naming convention 24 this. You load those into the equation and was used Tad1? 25 Page 59 Page 61 that generates out the product. 1 A. I assume this would be -- there's no 2 Q. All right. And so the product being assuming. This would be a file that was the percentage likelihood that one party or the generated from data related to a map that would other would prevail in that district, correct? have been crafted by Mr. Ottman. 5 A. The estimated vote share. Q. All right. Was Mr. Ottman crafting 5 6 Q. The estimated vote share. Okay. 6 maps? 7 A. Yeah. Percentage likelihood is a A. Well, by "crafting," I mean Mr. Ottman 7 different thing, which is the odds of winning. was one of the people drawing maps at the time. 8

- Okay? This is just a measure of what the 9
- partisan vote ought to look like, yeah.
- 11 Q. Okay. And based on what that output
- is, you could reconfigure the district and try 12
- 13 to get a higher vote share for one party or the
- other or you could try to reconfigure it and 14
- get a lower vote share for one party or the 15
- other, correct? 16
- 17 A. Yes.
- 18 THE WITNESS: Doug, 30 seconds. I
- just need to run and get a glass of water real 19
- quick. I've got to do my Marco Rubio thing 20
- 21 real quick. I'll be right back.
- 22 THE VIDEOGRAPHER: Going off the
- record, the time is 10:17 a.m. 23
- 24 (Recess.)
- THE VIDEOGRAPHER: We are back on the 25

- So this would be a map that was rendered by 9
- him, yes. 10
- Q. Do you know, did Mr. Ottman have your
- regression model? Was he running 12
- 13 configurations of districts through your
- regression model? 14
- A. I don't recall again if I have --15
- again, I don't recall. I provided information
- 17 as is -- this is a very dynamic process.
- Honestly, I can't recall if I gave it to him or 18
- not. Anything I was asked to provide, I 19
- provided. I imagine, given the existence of 20
- this file, what happened is I got a
- configuration of the map that indicated the 22
- district level, the vote performance for the 23
- districts across the exogenous elections I
- described and then generated the estimates of

Nichol; et al Page 62 Page 64 1 partisanship off of it. And I imagine that's your expert work? 2 what this file does. 2 A. I was contacted about the 3 Q. Can you see again from the metadata redistricting work initially in -- sometime in 4 that you've got available to you the data of February, I think, of 2011, as I recall. I had had an informal contact from a Jim Troupis who Tad1.sav? 5 6 A. Yeah, May 27, 2011. 6 had been counsel in the previous re-map. And 7 Q. What about Mr. Foltz? Did Mr. Foltz then at some point in time Eric McLeod, who had 7 also provide configurations, various also been involved in the previous re-map, 8 configurations of districts to you and have you transmitted me a retention letter and I think 9 run them through your regression model as well? there was correspondence to this respect in my 11 A. I'm trying to recall if he did or not. e-mails. And I believe my first actual 11 I mean, Mr. Foltz was another mapmaker that was engagement with the data probably would have 12 12 in the room. He may have, but I don't recall. been in April. Probably would have been in 13 If he had and I generated analysis, it should 14 14 15 be here. 15 MR. POLAND: Let's go ahead and mark this as an exhibit. What number are we up to 16 Q. And then what about Mr. Handrick? Did 16 Mr. Handrick also participate in drawing the 17 maps and looking at outputs from your THE REPORTER: 35. 18 18 regression model? (Exhibit No. 35 marked.) 19 19 20 A. Yes. 20 Q. (By Mr. Poland) Dr. Gaddie, the court 21 Q. Did Mr. Handrick have any input into reporter has handed you a document and you're 22 the regression model that you created? going to see that it's got two different 22 exhibit stickers on it. 23 A. No. A. Yes. 24 Q. That was something you did entirely on 25 Q. One is Exhibit 35, and it's marked in your own? Page 63 Page 65 1 A. Yes. the Whitford case as Exhibit 35. It was also 2 Q. Did either Mr. Ottman, Mr. Foltz or marked as Exhibit Number 66 in your deposition 3 Mr. Handrick ever, in your presence, apply the 3 in 2012. Do you see that? 4 regression model or use the regression model? A. Yes. 4 MR. KEENAN: Can I note that you gave 5 A. I don't recall. Well, what do you 5 mean by "use?" him one with highlighting on it? 6 6 7 Q. Did they ever actually perform the MR. POLAND: I gave him the wrong one. 7 mechanics of doing whatever you need to do to 8 I'm sorry. That's my initials. enter the data into the model and then MR. EARLE: You got to see the keys to 9 generating an output? world peace. 10 10 11 A. Not in my presence. MR. POLAND: Yeah, highlighted. If 11 12 Q. Do you know if they ever did it highlighting is the key to world peace, then --12 outside your presence? 13 THE WITNESS: Well, the thing is, as I 14 A. I don't know. tell my students, if the whole thing is 14 15 Q. This is probably a good place to ask highlighted, you're not doing yourself any 15 you just about your hands-on work with the 16

- 13

- legislative aides and then Mr. Handrick in 17
- 18 2011.
- 19 A. Yes.
- 20 Q. We did go through this in your
- deposition back then, but I would like to do
- that for the purpose of this case as well. 22
- 23 A. Sure.
- 24 Q. When were you retained to do the
- legislative redistricting work, Dr. Gaddie, not

- 17 All right. Counsel, I'm sorry.
- MR. POLAND: I'm sorry for the 18
- confusion. That's why you were asking me the 19
- question. Thank you. 20
- MR. EARLE: I'll be a little more 21
- assertive next time. 22
- MR. POLAND: Please do. 23
- Q. (By Mr. Poland) Dr. Gaddie, do you
- have Exhibit Number 35 in front of you?

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1 A. Yes, I do.

2 Q. Can you identify Exhibit 35 for the

- 3 record, please?
- 4 A. This is a retention letter which was
- 5 sent to me by Eric McLeod on April 11 of 2011.
- 6 Q. And if you turn to the third page of
- 7 Exhibit Number 35.
- 8 A. Yes.
- **9** Q. Is that your signature?
- 10 A. Yes, it is.
- 11 Q. And do you see it's filled in this
- 11 11th day of April 2011? Do you see that?
- 13 A. Yes.
- 14 Q. Do you recall where you signed Exhibit
- 15 Number 35?
- 16 A. No.
- 17 Q. Do you know whether you might have
- been present in Madison on that day?
- 19 A. I don't know. I was in Madison three
- 20 or four -- I was in Madison three days later.
- 21 I don't know if I was in Madison -- April 11
- would have been a Monday or a Tuesday. A
- Monday or a Tuesday. I don't believe I was in
- 24 Madison when I signed this. So this may have
- been a facsimile transmission. It may have

- 1 that you provided a week ago?
- 2 A. Yes.
- 3 Q. So you do recall that you were in
- 4 Madison during April of 2011?
- 5 A. Yes, I was definitely in Madison on
- 6 April -- on April 15 because I remember the
- 7 protest at the state capital distinctly because
- B it was tax day.
- **9** Q. How many days were you in Madison on
- that trip that took you there on April 15?
- 11 A. Oh, at least two or three. Just to
- clarify, I was also doing work in Illinois at
- 13 the time, in Chicago. So sometimes I would be
- in Chicago, then hop the shuttle up to Madison
- or hop the bus up to Madison and then come back
- through Chicago and come home. So sometimes
- 17 the travel gets a bit scrambled up or I may
- 18 have been back and forth.
- 19 Q. I understand. So those two or three
- 20 days when you were in Madison in mid April in
- 21 2011, was that the first time that you came to
- 22 Madison for the purpose of legislative
- redistricting in 2011?
- 24 A. As far as I can recall, yes.
- 25 Q. Do you recall who asked -- strike that

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- been an electronic transmission. I don't
- 2 recall. But I did sign this the date that I
- 3 got it and then returned it.
- 4 Q. If your deposition testimony in 2012
- 5 was that you signed this in Madison, would you
- 6 think your memory was better at that time than
- 7 it is now?
- 8 A. My memory was better at that time than
- 9 it is now. So it's possible I was in Madison.
- 10 I just don't recall.
- 11 Q. Let me ask you about the number of
- times that you were in Madison for the purpose
- 13 of your consulting work --
- 14 A. Right.
- **15** Q. -- with legislative redistricting in
- 16 2011. How many times were you actually
- 17 physically present in Madison?
- 18 A. At least two, possibly three during
- 19 the spring and summer of 2011. Precisely, I
- 20 can't recall. In producing e-mail there are
- 21 travel arrangement records that appear in there
- 22 that will more precisely indicate. But it's
- 23 been four years.
- 24 Q. And when you say an e-mail, that's an
- e-mail that you produced on the flash drive

- 1 question.
- 2 Do you know why you -- what prompted
- your trip to Madison around that time?
- 4 A. Well, I was being retained to work on
- 5 the re-map, so Mr. McLeod and Mr. Troupis
- 6 wanted me to meet with Mr. Handrick and Mr.
- 7 Ottman and Mr. Foltz and get a sense of the
- 8 sort of measures and statistics that they might
- 9 require in generating analysis for them
- 10 presumably on behalf of the legislature for the
- 11 purpose of redistricting.
- 12 Q. And that was reflected in the
- engagement letter that you signed, correct?
- 14 A. Yes.
- 15 Q. Let's turn to that engagement letter,
- Exhibit 35 in front of you. And I would like
- 17 you to look under the Scope of Engagement and
- 18 Expectations.
- 19 A. Okay.
- 20 Q. This will probably look somewhat
- 21 familiar to you. Do you see that first
- 22 paragraph that says, "As a consultant to MB&F
- 23 in connection with the representation, we
- 24 expect your duties to include service as an
- 25 independent advisor on the appropriate racial

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and/or political makeup of legislative and

- 2 congressional districts in Wisconsin." Do you
- see that? 3
- 4 A. Yes.
- 5 Q. And that's stated as an expectation,
- correct? 6
- 7 A. Yes.
- 8 O. And did you in fact serve as an
- advisor on the appropriate racial makeup of 9
- legislative and congressional districts in
- Wisconsin? 11
- 12 A. I would say that my input -- I
- provided statistics and analysis as
- appropriate. I would say that in terms of 14
- 15 advice, the advice was more skewed towards the
- racial rather than the parties that make up the 16
- district. This was the area of particular 17
- concern where I could put my expertise to work. 18
- With regard to political makeup, this 19
- 20 was solely in the form of generating estimated
- partisan composition of the districts. Beyond 21
- 22 that indicating a preference for district maps
- and designs, I didn't offer any counsel in that 23

gave it to the mapmakers and let them do with

on the political makeup of the legislative and

congressional districts in Wisconsin to the

that out. Right? It says, "This will include

statistical and demographic information and on

in part providing advice based on certain

24 form.

3 A. Yes.

8 A. Yes.

14 A. Yes.

16 A. Yes.

15 Q. You did do that?

Friedrich, correct?

6

7

11

12

13

18

19

20

21

25 Q. You created the regression model, you

2 it what they were going to do with it?

4 Q. But you did in fact act as an advisor

**9** Q. And the next sentence sort of bears

17 Q. The next paragraph reads, "All work

23 Q. And MB&F, that's Michael, Best &

performed by you in connection with the

senate and assembly." Do you see that?

representation shall be for the sole purpose of

assisting MB&F in rendering legal advice to the

extent that you just testified?

election data or information."

1 Q. That was Mr. McLeod's firm, correct?

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- 2 A. Yes.
- 3 O. The next sentence reads, "Said work
- contemplates services of a character and
- quality that are adjunct to our services as
- 6 lawyers and you shall perform said work at our
- direction." Do you see that? 7
- A. Yes. 8
- Q. Did you in fact -- strike that 9
- 10 auestion.
- In fact, the work that you provided, 11
- was that done at the direction of the 12
- legislative redistricting team in Wisconsin?
- A. Yes.
- Q. And that was Mr. McLeod, Mr. Troupis,
- Mr. Handrick, Mr. Foltz and Mr. Ottman? 16
- 17 A. Yes.
- Q. Anyone else that I left out?
- A. I just want to make sure that I'm 19
- 20 clear. Actually, Doug, just to clarify, I was
- retained by Mr. McLeod. Mr. Troupis was
- present in the process. I discussed with Mr.
- Ottman -- Mr. Ottman and Mr. Foltz and Mr.
- Handrick the type of analysis statistics that 24
- might be generated and then did so. Beyond

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- that there was very little in terms of any --
- actually, I don't recall any direct direction
- 3 coming from Mr. Troupis or Mr. McLeod or, for
- that matter, the staff regarding anything other
- than a technical execution of the statistical 5
- assessment of their product. 6
- Q. "Their product" being the 7
- configuration of the districts?
- A. Configuration of the maps, yes. Yeah. 9
- So I mean, it was very soft guidance. Very
- soft direction, for lack of a better way to put
- it. 12
- 13 O. Okay. I understand.
- A. Yeah. 14
- 15 Q. The next paragraph -- I'm sorry.
- Before I get there it says, "Accordingly, all 16
- 17 communications between you and MB&F, as well as
- communications with the senate and assembly and 18
- work performed by you in connection with 19
- representation, shall be confidential and made 20
- solely for the purpose of assisting counsel in
- rendering legal advice." Do you see that? 22
- A. Yes. 23
- Q. And did you in fact keep
- communications and your work confidential at

25 A. Yes.

22 A. Yes.

Page 74 Page 76 least up until the time that you were 1 Q. And so when you say the pro tem, that identified as an expert and had to turn was Senator Fitzgerald, correct? everything over in the Baldus case? A. As opposed to Speaker Fitzgerald, yes. 3 4 A. Yes. 4 Q. His brother, who was in the assembly. **5** Q. Is there anything from the work that 5 A. Yes. you did as a consultant on legislative 6 Q. Yes. 6 redistricting in 2011 that you have not turned A. Again, I may have them transposed. 7 over that you've kept confidential up to this But it was the two Fitzgeralds. point in time? Q. You were not asked to sit in on any 9 9 10 A. I've turned over everything in my 10 meetings with any members of the state senate possession. or the state legislature when different map 11 12 Q. The next paragraph states, "You will configurations were presented to them, correct? 12 not discuss with or otherwise disclose to A. No. I was not asked to sit in on any 13 anyone or with any entity other than MB&F and meetings with any lawmakers about any map 14 15 the senate or assembly without a written 15 configurations. authorization the nature or content of any oral Q. And you didn't talk to any lawmakers 16 or written communications or of any information on the telephone about any map configurations 17 or your work performed related to the and didn't communicate with them by e-mail? 18 representation." Do you see that sentence? Just had no communications whatsoever other 19 19 20 A. Yes. 20 than the two that you mentioned here today, 21 Q. And did you adhere to that direction? correct? 21 22 A. Yes. A. I am certain I didn't. And if I did, 22 23 Q. You did not speak to any -- directly I sure as hell don't remember, yeah. to any of the elected officials in the assembly Q. I don't have anything to suggest that or the senate during the time that you were you did. Page 75 Page 77 1 performing consulting services, correct? 1 A. No. But it's -- I mean, I'm sitting 2 A. I had two contacts with elected here wracking my brain. And literally the only 3 officials in my time consulting for the contacts I had were those two. assembly. I walked over with Joe Handrick to O. The next sentence goes on -- again we're on Exhibit 35, the last paragraph on the 5 the Capitol building because Joe was meeting 5 with the -- I can't -- when you have a pro tem first page. Middle of the paragraph goes on to 6 6 and a speaker who are brothers, it's a bit state, "You will not disclose or permit 7 7 8 difficult to disentangle which one is which. inspection of any papers or documents related He was meeting either with the speaker or the to the representation without our written 9 9 pro tem in passing. I don't recall what the authorization in advance. All workpapers, 10 10 meeting was about. It was very brief. I just records or other documents or things, 11 walked over to be introduced. We didn't talk regardless of their nature, and the source from 12 12 13 about substance of the map. As I recall, that 13 which they emanate, which are related to the probably was with the speaker, as I recall. representation, shall be held by you solely for 14 14 On one occasion the pro tem did come our convenience and subject to our own 15 15 qualified right to instruct you with respect to 16

over to the mapping room to look at some data

17 that we had and I was introduced and explained

18 to him how one of these large spreadsheets that

we're going to be talking about, which I think 19

were informally called the heat maps, for lack 20

21 of a better way to put it because of the

visualization of color, to basically explain 22

how to interpret that. And that was the 23

totality of my contact with lawmakers in this 25 process.

language? 18 A. Yes. 19

Q. And you did adhere to that directive until you had to produce things in the Baldus

possession and control." Do you see that

litigation, correct? 22

A. Yes. 23

Q. And then it goes on and the rest of that paragraph reads, "Any workpapers or

17

- record. The time is 11:06 a.m.
- materials prepared by you or under your direction belong to the senate pursuant to the
- representation and every page must be sealed or
- otherwise stamped 'Attorney/Client Work-Product
- Privilege Confidential'." Do you see that?
- 6 A. Yes.
- 7 Q. And again -- well, strike that. Let
- me ask you this question. Did you do anything
- to seal or stamp materials in your possession 9
- 10 as attorney/client work product privileged
- confidential? 11
- **12** A. No, but I also generated no actual
- paper that ever left Madison.
- 14 Q. And you just qualified actual paper
- that never left Madison. Was there paper that
- actually stayed in Madison that you generated?
- 17 A. I mean, as we're going to be talking
- about these very large spreadsheets, those were 18
- printed out on a wide carriage printer for use 19
- 20 of examination.
- 21 Q. I understand.
- 22 A. Yeah. Yeah.
- 23 Q. I understand. Okay. Very good. And
- then the other -- the one other aspect of this
- letter I wanted to ask you about is under the

- Q. (By Mr. Poland) Dr. Gaddie, before we
- broke we were talking about your trips to
- Madison for the purpose of legislative
- redistricting consulting in the spring of 2011.
- 6 Do you recall that?
- A. Yes. 7
- O. And you had mentioned in your
- testimony that you believe there are some
- e-mails that might help you to specify or put
- some better time estimations around when that
- travel occurred, is that correct? 12
- 13 A. Yes.
- Q. All right. Let's take a look at some
- of those e-mails then and see. Can you
- identify -- and I see that you've got pulled up
- in the computer in front of you the flash drive
- that you produced last week. That's Exhibit
- Number 31. 19
- 20 A. Yes.
- Q. And does that have some files that 21
- help you to give more precise estimates of the
- dates that you were in Madison?
- A. They should be able to, yes.
- 25 Q. Are there any in particular that you

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- Term and Payment for Services section on Page
- 2. If you go down to the fourth paragraph it 2
- 3 says, "While you will be a consultant for MB&F,
- the senate and assembly for whom your services
- are being procured are solely responsible for
- payment of your services pursuant to a retainer 6
- that has been established." Do you see that? 7
- 8 A. Yes.
- 9 Q. And was it your understanding that you
- were providing consulting services to the
- senate and assembly? 11
- **12** A. Yes.
- 13 MR. POLAND: Let's set that aside.
- You know, we've got five minutes to a tape 14
- change. Why don't we go off the record while 15
- we change the tape? 16
- 17 THE WITNESS: Sure.
- 18 MR. POLAND: I'm going to take a look
- at more of the e-mails that you mentioned as 19
- well. 20
- 21 THE WITNESS: Okay.
- THE VIDEOGRAPHER: Going off the 22
- record. The time is 10:43 a.m. 23
- (Recess.) 24
- 25 THE VIDEOGRAPHER: We're back on the

- can identify?
- 2 A. Well, again, I would have to look in
- to them to say. But certainly the travel
- confirmation from Expedia dated June 13 would
- have been for travel to Madison.
- O. All right. And so let me stop you
- right there a second. So when I open that up
- and I look at that file what I see -- and we're
- 9 just going to have to look at it on the
- screens. We don't have a printed copy of that. 10
- 11 A. That's fine.
- Q. But it appears that you had traveled
- 13 -- left Oklahoma City on June 13, 2011. Do you
- see that? 14
- 15 A. Yes.
- Q. And then it looks like you were going
- to -- going through O'Hare and then arriving in
- Madison that same day, correct? 18
- A. That's correct. 19
- Q. And then it looks like your return
- flight was on June 15, 2011, is that correct?
- A. That sounds correct, yes.
- 23 Q. All right. So that's one trip that
- you took to Madison, correct?
- 25 A. Yes.

April 12. Thank you. So let's keep going back

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- through. Okay. Here we go. If you go to the
- third page of the e-mail there is a flight 3
- itinerary which has me leaving Oklahoma City 4
- 5 for Chicago on the 13th and arriving in Madison
- 6 that evening and then departing Madison on the
- 17th to return back home going through 7
- Minneapolis.
- Q. Do you know whether you were in 9
- Madison the entire time between April 13, 2011
- and April 17, 2011?
- 12 A. Yes. To the best of my recollection,
- I never left Madison.
- Q. You don't recall going down to Chicago
- at least on that trip?
- A. No. No.
- Q. And it looks like when you were in 17
- Madison, I thought I saw this here a minute
- ago, that you were staying -- oh, there we go. 19
- 20 You were staying at the Concourse Hotel?
- 21
- 22 Q. And that's just right off of Capitol
- Square in Madison? 23
- 24 A. Yes.
- 25 Q. When you were in Madison working from

- 1 Q. Why did you travel to Madison between
- **2** June 13 and June 15 of 2011?
- **3** A. Because I was asked to travel there.
- 4 Q. Do you know why you -- well, strike
- that question.
- Who asked you to travel there? 6
- 7 A. I believe I was contacted by the
- redistricters, by Eric McLeod and Joe Handrick,
- and asked to travel there. I seem to recall 9
- 10 there may have been some communication
- involving Jim Troupis as well. At this point 11
- we were wrestling with issues of how to 12
- finalize the districts in Milwaukee. And as I
- recall, that's where much of the conversation 14
- 15 focused.
- 16 Q. And that had to do with racial make up
- of some of the districts in Milwaukee?
- 18 A. Yes.
- 19 Q. And that was part of the subject of
- 20 the Baldus litigation, correct?
- 21 A. Yes.
- 22 Q. All right. Did any of the work that
- you did when you traveled to Madison in June of
- 2011 involve any kind of partisanship analysis?
- 25 A. I don't recall.

- April 13, 2011 to April 17, 2011, whose offices
- were you working in?
- 3 A. I was working out of the offices of
- Michael, Best & Friedrich.
- 5 Q. Did you do work out of any other
- office during that time?
- A. No. 7
- Q. It looks like on the 17th when you
- returned, it looks like you left -- or at least
- you were scheduled to depart Madison at 12
- o'clock noon, is that correct?
- **12** A. That's correct.
- 13 Q. Do you recall -- and I know this is a
- long time ago. Do you recall whether your
- flight was on time? 15
- A. I was on Delta. Of course I wasn't on
- 17 time. I don't know. I don't recall. I got
- very familiar with the Minneapolis airport. I 18
- can tell you that much. 19
- Q. Got it. Okay. 20
- 21 A. Because I think I've been to it once,
- maybe twice, and it was this trip. Yeah.
- Q. When you were in Madison between April 23
- 13 and April 17 of 2011, fair to say that the
- work that you performed at that time did

- 1 O. Is there another record on the flash
- 2 drive that you produced that would help you to
- 3 identify other times that you traveled to
- 4 Madison?
- 5 A. Well, there would have been traveling
- in April. Would have been travel in April 6
- around the time of tax season. So again, that 7
- time period around the 14th, 15th, 16th, 17th I 8
- should have been in Madison. I was in Madison.
- 10 Q. Let me stop you there and let's see if
- we can tie it to a file. I notice that there
- is a PDF that says Re: Flight details.pdf --12
- 13 A. Yes.
- 14 Q. -- on your flash drive. Do you see
- that? 15
- 16 A. Yes.
- 17 Q. All right. Does that help you to fix
- 18 with any more specificity when you were
- traveling to Madison? 19
- 20 A. Well, the part that I can view here
- without opening the file up, not really.
- **22** Q. Okay.
- 23 A. It's -- you know, there is an
- indication that my last correspondence with
- Suzanne Trotter about my travel date is on

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- 1 involve partisanship analysis?
- 2 A. Yes.
- 3 Q. Other than June and April of 2011, do
- you recall any other times that you were
- actually in Madison doing work for the purpose
- of your consulting with legislative 6
- redistricting? 7
- 8 A. I'm trying to remember. There
- probably -- I'm trying to remember if there 9
- 10 wasn't one other trip. It may have been a
- piggyback on a trip to Chicago. I can't 11
- recall. I do recall being -- I recall 12
- distinctly being in Madison because the 13
- Wisconsin Feminist Science Fiction convention 14
- 15 was going on, and I'm a big sci fi fan. So it
- was kind of neat having that convention inside 16
- the Concourse Hotel while I was there. I can't 17
- remember if I was up there in May or not. But 18
- again, it's been four years. There was so much 19
- 20 travel going on at that point in time.
- I do know that the trip up in June 21
- 22 immediately followed my anniversary trip to the
- Caribbean with my wife for my 20th anniversary.
- 24 Q. I notice there's also a billing record

**3** Q. And you identify -- this is a letter

7 Q. And you say you're attaching a bill

11 O. And I didn't see attached to this any

kind of receipts for travel or anything like

traveled to Madison in May, would you have

that. Would you normally -- if you had

probably submitted receipts for travel or

1 billing, 2011/06/03.

2 A. Yeah.

3, 2011.

6 A. Yes.

10 A. Yes.

5

12

13

14

15

that you had produced. And this says Wisconsin

it looks like you sent to Eric McLeod on June

for services performed from May 1 through the

- and the file name is Re --
- 2 A. Yes.
- **3** Q. -- WD Wednight.pdf. Do you see that?
- 4 A. Yes.
- 5 Q. And if you scroll down to the -- I
- think this is the -- it's the first page. It
- 7 appears that you were traveling to Madison in
- May? 8
- A. Late May, yes. 9
- 10 Q. Late May.
- A. Yes.
- 12 Q. Okay. I see that there is a --
- there's just a reference to nights and we don't
- see dates other than the date an e-mail was
- sent on May 24, 2011. Do you see that?
- A. Yes.
- Q. All right. And it says that you're
- going to be arriving on a United flight at 6:50
- 19 p.m.
- 20 A. Yes.
- Q. This is correspondence you had with --
- the e-mail address is JoeMinocqua@msn.com,
- correct?
- 24 A. Yes.
- 25 O. That's Joe Handrick?

- 1 A. That is Mr. Handrick's e-mail address,
- yes.
- 3 Q. Did Mr. Handrick in fact pick you up
- at the airport when you arrived?
- 5 A. I believe he did. We had dinner at
- the Esquire Club, which is one of the supper 6
- clubs in Madison that Joe has a fondness for. 7
- Q. Do you recall whether -- do you recall
- what specific date that flight was on?
- A. No. It probably, given the e-mail is
- on the 24th, it could have been no earlier than
- the 25th. I was probably up there for --12
- 13 again, I'm working from deep memory, but I was
- probably up there for no more than a couple or
- three days at that time.
- Q. Do you believe that you were up there
- 17 on or about May 27?
- 18 A. Yes.
- Q. Do you have a specific recollection of
- being in Madison in late May of 2011? 20
- A. I recall being there, yes.
- Q. Anything in your mind's eye strike you
- about where you -- that might tie you to that 23
- time period in terms of the work you were 24
- 25 doing?

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18

reflected that on an invoice? 17 A. Well, had I incurred any expenses I

31st. Do you see that?

- would have. Because all arrangements were
- booked and arranged for and billed to the law 19
- firm, I had no expenses to claim. 20
- 21 Q. I see. It looks like we do have one
- other to take a look at here.
- 23 A. Okav.
- 24 Q. You'll see there's another PDF on the
- flash drive that's marked as Exhibit Number 31

Whitford; et al vs Nichol; et al

1 A. No. No. I mean, nothing that I can

- 2 recall.
- 3 Q. Would your work at that time have
- 4 involved partisanship analysis?
- 5 A. More than likely, yes.
- 6 Q. And do you recall anything
- 7 specifically about the partisanship analysis
- 8 work you were doing in late May?
- **9** A. No. Again, once we had developed a
- 10 mechanism for baselining estimates on the
- 11 districts, baselining partisanship on
- 12 districts, there wasn't that much more work to
- be done other than applying that formula to
- 14 maps that might be generated. Again, much of
- my concern in this time period was really with
- 16 trying to get a handle on the performance of
- 17 the majority/minority districts.
- 18 Q. Okay. So there are two other files
- 19 that I want you to take a look at on the flash
- 20 drive you produced last week. Let's go to
- 21 those. Let me find it on my computer here now,
- 22 too. One is New\_words\_-\_statewide.xlsx.
- 23 A. Okay.
- 24 Q. And I need to find that, too. There
- 25 it is. It's actually not too far down. It's a

- 1 work in retention in this case. Because if you
- 2 look in this file, you'll discover there are
- 3 census data aggregated up at the ward level
- 4 regarding race and ethnicity drawn from the
- 5 census, both total population, VAP population
- 6 data, married to electoral history data, which
- 7 I assume came from the State Board of
- 8 Elections. These were data that were provided
- 9 to me to work with in pursuit of my duties
- 10 under my contract.
- 11 Q. Okay. So these were not -- this is
- not anything that you generated on your own.
- 13 This is, like you said, the data that you were
- 14 given to work with?
- 15 A. Yes.
- 16 Q. And then the last file I would like
- you to take a look at is Milwaukee\_County.xlsx.
- 18 It's Milwaukee\_County.xlsx.
- 19 A. There it is. Okay. We're open.
- 20 Q. Okay. Great. When was this file
- 21 created?
- 22 A. December 10, 2011.
- 23 Q. And why don't we go ahead and open it
- 24 up and take a look and see what it is?
- 25 A. Okay. Okay. Again, this appears to

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- 1 9.2 megabyte file.
- 2 A. Yeah. We're waiting for it to cycle.
- 3 Q. Okay.
- 4 MR. EARLE: Do you want me to open it?
- 5 MR. POLAND: Well, I was going to ask
- 6 first about when it was created.
- 7 A. Okay.
- 8 Q. (By Mr. Poland) Can you see that on
- 9 your metadata?
- 10 A. Yes. December 8, 2011.
- 11 Q. Do you know why it would have been
- created on December 8, 2011?
- 13 A. I have no idea.
- 14 Q. Do you know who created this file?
- 15 A. No.
- 16 Q. Why did you have this file on the
- 17 flash drive that you produced?
- 18 A. It was in my possession. And if I
- could look inside of it and if I could see what
- was in it, I might be able to illuminate my
- 21 answer.
- 22 Q. Let's do that.
- 23 A. Very good. Okay. Yes. These would
- be -- this would be a root data file that I
- would have been working off of to perform my

- be a data set much like the previous one we
- 2 looked at. It appears to be only data from
- 3 Milwaukee County.
- 4 Q. So again, not data that you created.
- 5 This is data that you used for the purpose of
- 6 vour work?
- 7 A. That's correct, yes.
- **8** Q. There actually is another file that I
- 9 want you to take a look at. I do have a
- printed copy of it. And this is actually a
- 11 Word file.
- MR. EARLE: Is that the one over
- 13 there?
- MR. POLAND: Do you know what the file
- 15 name is, Peter?
- MR. EARLE: Yes. It's Wisconsin
- 17 Partisanship. And it's right --
- MR. POLAND: Which folder is it under?
- MR. EARLE: It's apparently not here.
- MR. POLAND: Oh, it's in the other
- 21 one. I'm sorry.
- MR. EARLE: It might be. Wait a
- second and maybe I can tell you.
- MR. POLAND: I think we have to go to
- 25 the other one.

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- 1 Q. (By Mr. Poland) All right. I'm going
- to ask you to take a look at Exhibit Number 34,
- which is your Baldus flash drive.
- THE WITNESS: There it is right there. 4
- 5 Yeah, zoom that up a little bit. I didn't
- bring my Plus 3s today, Peter. 6
- MR. EARLE: I'm admiring your eyesight 7
- because you're seeing stuff that I wish I could 8
- 9
- 10 THE WITNESS: Oh, these are transition
- lenses. Actually, I can see the wall as clear 11
- as a board, but up close it's --12
- 13 O. (By Mr. Poland) So for the record.
- this is a file in Exhibit Number 34. That's 14
- 15 the flash drive from the Baldus case. It's a
- Word file. The file name is 16
- Wisconsin Partisanship.docx. 17
- 19 Q. All right. Do you have that in front
- 20 of you?
- 21 A. Yes, I do.
- 22 Q. I'm going to mark a copy of that here,
- a hard copy of that, and we can work with it in
- hard copy for those of us who want to do that.
- MR. POLAND: I'm not sure what exhibit 25

- April 17.
- 2 Q. Okay. So the best of your
- recollection, Exhibit 36 was created on or
- about April 17, 2011?
- A. Well, according to my data it was.
- But, yes. I mean, I wrote this.
- Q. Oh, okay. But you've got the metadata
- in front of you?
- A. I'm looking at the metadata, yeah.
- Q. Okay. All right.
- 11 A. Peter and I are getting the hang of
- this. 12
- Q. You certainly are. Okay. Terrific.
- And so you did create this while you were in
- 15 Madison?
- A. Yes. 16
- Q. Do you recall drafting Exhibit Number 17
- 36? 18
- 19 A. Yeah. Let's put it this way. I don't
- 20 recall specifically drafting it, but I know my
- writing style, and this is the kind of thing I
- would have written. Yes, I wrote this.
- Q. Do you remember where you were when
- you wrote it?
- 25 A. I was sitting at Michael, Best &

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- number we're on now.
- THE REPORTER: 36. 2
- (Exhibit No. 36 marked.) 3
- 4 Q. (By Mr. Poland) Dr. Gaddie, I'm
- handing you a copy of a document that the court
- reporter has marked as Exhibit Number 36. Do 6
- you have that in front of you? 7
- 8 A. Yes.
- Q. And you also have that document pulled
- up on the screen of the computer in front of 10
- vou?
- 12 A. Yes, I do.
- 13 Q. Can you identify Exhibit Number 36 for
- the record, please?
- 15 A. This is a set of notes that I wrote
- for myself to inform my conversation with the
- team at Michael Best regarding the creation of 17
- 18 a partisanship measure, the context in which it
- could be created -- it was being created and my 19
- steps -- my general steps in that direction. 20
- 21 Q. Can you tell from the metadata on the
- computer when Exhibit Number 36 was created?
- 23 A. Actually, it's -- for what it's worth,
- I believe this was created while I was in
- Madison during my first trip. Probably around

- Friedrich. Probably in -- I was either sitting
- at Michael, Best & Friedrich in one of their
- conference rooms or I was sitting over at the
- hotel, one or the other.
- 5 Q. Over at the Concourse where you were
- staving? 6
- A. That's usually the only places I went
- when I was in Madison, other than getting
- popcorn down there from that little vendor by 9
- the Capitol. That's about it.
- Q. You were hard at work?
- 12 A. Yeah. Yeah. They don't pay me to
- 13
- Q. Why did you create Exhibit Number 36?
- A. Really as a -- first of all, to create
- a rationale for establishing the measure, that
- even if we weren't going into court to argue 17
- for a map that was supposed to be fair and 18
- reactive and have the court adopt a map, it was 19
- still necessary to understand the partisan 20
- effect of a map. Okay? So in the first
- paragraph, yes. The obligations are different, 22
- but nonetheless, we needed to understand the 23
- partisan consequence using data of any map that was created.
- 25

Page 98 Page 100 1 In the second paragraph what I do is I case, wasn't it, in 2011? 2 indicate that I've taken the electoral data A. What was done? using the assembly data from 2006, '8 and '10 3 Q. They took a look at the entire map to 3 and constructed a regression analysis, which we assess the partisan impact, correct? 4 talked about previously, in order to create an A. I would have to assume so. But they 5 6 estimate of the vote performance of every 6 certainly had the ability to do so, yes. district. Q. And the decision ultimately about 7 7 whether to change a map one way or the other to Then what I indicate in the third 8 paragraph that this could be used to create a affect that partisan outcome is a policy 9 9 10 set of visual aids to demonstrate the partisan decision of the legislators, correct? structure of Wisconsin politics. Okay? A. That is correct. 11 Communicate the top-to-bottom party basis of Q. I want to go back and just talk about 12 12 state politics. And the one thing I take note the start of the document here. You start out 13 of in here is that the recent supreme court by saying "The measure of partisanship should 14 15 race in Milwaukee County executive contest exist to establish the change in the partisan balance of the district. We are not in court appears to be -- it appeared that partisanship 16 16 at this time. We do not need to show that we was invading non-partisan races. That is an 17 17 18 observation that's made not on data but based have created a fair, balanced, or even reactive upon a qualitative assessment at the time of map. But we do need to show to lawmakers the 19 19 political potential of the district." Right? 20 the environment. 20 21 Q. Let me take you back to something that A. That's correct. 21 you said just at first in part of your answer. Q. And you use the word "potential" there. What did you mean by the word 23 A. Yes. 24 Q. You said something to the effect that potential?

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effect. Why is it important to understand the partisan effect?

it's important to understand the partisan

- 3 A. Well, again, I was writing as a
- political scientist. If you're going to
- redistrict it's important to understand the 5
- consequences of it. Lawmakers are going to be 6
- concerned about a variety of different 7
- 8 consequences of a redistricting. The impact on
- their constituency, the impact on other 9
- constituencies. 10
- If a lawmaker comes in and wants to 11
- know what you did to his district, it would be 12
- 13 nice to be able to tell him we've got an
- estimate of what your district used to look 14
- like in terms of partisanship and here's what 15
- it looks like now. So this kind of technique 16
- 17 allows us to generate a measure that you can
- 18 show to somebody and explain to them, this is
- what we think the net electoral impact is on 19
- your constituency. 20
- In the aggregate, it means you can 21
- 22 look at an entire map and ascertain the extent
- to which you have moved the partisan balance 23
- one way or the other.
- 25 Q. And that was done, in fact, in this

how might it turn out. So when I say

25 A. If you had an election in the future,

- potential, what I'm saying is that if we ran an
- election, this is our best estimate of what a 3
- non-incumbent election would look like given a
- particular set of circumstances, depending on
- whether one party is stronger or weaker. 6
- Q. And that's what your regression model 7
- 8 was designed to do, to show that potential of
- the district? 9
- A. Yeah, it was designed to tease out a 10
- potential estimated vote for the legislator in
- the district and then allow you to also look at 12
- 13 that and say, okay, what if the Democrats have
- a good year? What if the Republicans have a 14
- good year? How does it shift? Okay? 15
  - The other thing is we know that
- 17 districts don't correspond precisely to our
- 18 statistical models all the time. So we're not
- concerned just with the crafting of the 19
- district or a point estimate of the vote. It's 20
- 21 only an estimate. There's error. Right?
- There's going to be a range within which the 22
- outcome might occur. 23
- The idea was to give to those people 24
- that were mapping, those people that were 25

16

- making choices, as much knowledge as we could
- 2 glean about each district by giving them the
- 3 most leverage on the least amount of data.
- 4 Q. Okay. Now, the next paragraph you
- start out and you say, "I have gone through the
- 6 electoral data."
- 7 A. Oh, yes.
- 8 Q. I'm sorry.
- **9** A. Yeah, go ahead.
- 10 Q. Was there something --
- MR. EARLE: It went dark.
- 12 A. I've got a hard copy here.
- 13 Q. (By Mr. Poland) Okay. You say, "I
- have gone through the electoral data for state
- office and built a partisan score for the
- assembly districts." Do you see that?
- 17 A. Yes.
- **18** Q. And when you say "built a partisan
- score," what do you mean by that?
- 20 A. Again, an estimate of party strength.
- 21 So an estimated percentage vote based on the
- 22 regression equation for that district under a
- 23 set of circumstances.
- 24 Q. All right. And then you go on and you
- 25 say, "It is based on a regression analysis of

- 1 conversations with.
- 2 Q. And why was Mr. Handrick the one that
- 3 you would have talked to?
- **4** A. We just worked together in the past.
- 5 Joe understands data and so it's easy to have
- 6 those conversations with him.
- 7 O. And he also had served in the
- 8 assembly, correct?
- 9 A. He had served in the assembly. He had
- 10 done a re-map before.
- 11 Q. Was Mr. Handrick generally familiar
- with the regression analysis and building a
- 13 partisan score?
- 14 A. Well, I had to introduce him to the
- regression analysis. He sort of took my word
- with regard to the technique and how it would
- work and what it would do. So he accepted my
- recommendation to rely on this. And again, in
- 19 no small part, because the court had relied
- upon it in the past. If we had to go talkabout partisanship to a judge and it was Judge
- 22 Easterbrook, we want to give Judge Easterbrook
- what he likes to see.
- 24 O. I understand.
- 25 A. Or any judge. We want to give to

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- 1 the assembly vote from 2006, 2008, 2010, and it
- 2 is based on prior election indicators of future
- 3 election performance." Do you see that?
- 4 A. Yes.
- 5 Q. All right. Who made the decision to
- 6 use those specific past elections for the
- 7 purpose of the regression analysis?
- 8 A. These were the best data available. I
- 9 can't recall why we started going back in time
- to 2006, but one thing we know in general is
- 11 that more recent elections are more informative
- than elections that exist in the distant past.
- 13 I can't recall exactly why that choice was
- 14 made.
- **15** Q. Do you recall who made that choice?
- **16** A. It was really just sort of a thing
- that happened, I guess. I don't remember
- 18 specifically.
- **19** Q. Do you recall having any discussions
- with Mr. Handrick or Mr. Foltz or Mr. Ottman
- about what data ought to be used?
- 22 A. If I had a conversation it would have
- 23 been with Mr. Handrick. Generally speaking, in
- 24 talking about these measures, Mr. Handrick was
- 25 the only person that I would have had these

- 1 judges a clear articulation of what we've done
- 2 using the best available science. And
- 3 regression analysis is the best available
- 4 science.
- 5 Q. Going into the third paragraph then,
- 6 you say, "I am also building a series of visual
- 7 aids to demonstrate the partisan structure of
- 8 Wisconsin politics." Do you see that?
- 9 A. Yes.
- 10 Q. And then you go on to say, "The graphs
- will communicate the top-to-bottom party basis
- of the state politics." Correct?
- 13 A. Yes.
- 14 Q. And what are you referring to in those
- 15 two sentences?
- 16 A. Okay. There should have been -- I
- mean, I don't know if these were what I
- 18 provided in discovery or not, but there should
- be two types of visuals that you should
- 20 encounter which are very, very, very large
- files. One is a bivariate correlation table.
  And I want to make note of the fact
- that at this point in time I'm working in New
- 24 Mexico, Oklahoma, Wisconsin, Illinois,
- 25 Louisiana, Maryland. Okay? So I've got a lot

- of irons in the fire. But as I recall from
- 2 Wisconsin, we developed a giant correlation
- 3 table using precinct level data of all the
- 4 statewide elections, okay, and the assembly
- 5 elections. And when printed out it was
- 6 probably about as big as half of this table.
- 7 So we could then go through and identify how
- 8 these statewide elections strongly correlated
- 9 with the assembly elections. It was an ability
- to -- it was a way of visually explaining to
- someone who might ask why we're taking all these other elections, jumbling them up in an
- equation to predict this one vote.
- We can go in and say, okay, at this
- point we can show the assembly election closely
- 16 correlate with the Governor's race, the
- 17 presidential race, whatever. So there should
- have been a large visual for that, unless my
- 19 memory is failing me.
- But then in developing maps we had
- 21 developed estimates in Excel sheets much like
- 22 the one we looked at previously, the
- Tad1 20110527 file, where I had color coded the
- 24 cells to indicate the partisan direction, the
- 25 intensity of partisan strength in different

- 1 A. There was a room in Michael, Best &
- 2 Friedrich which was the mapping room. And if
- 3 that were printed out, that's where it would
- 4 have resided.
- 5 Q. All right. Do you recall seeing that
- 6 printed out in Michael, Best & Friedrich's
- 7 office?
- 8 A. If I'm remembering correct, yeah, it
- 9 should have been in there. It never left that
- 10 room, to my knowledge. But that's where I
- 11 recall that file existing.
- 12 Q. Do you remember looking at it, at a
- 13 printout?
- 14 A. Yeah.
- 15 Q. Was anyone with you when you looked at
- 16 the printout?
- 17 A. Joe Handrick would have been with me,
- 18 yeah.
- **19** Q. Anybody else that you can recall?
- 20 A. Not that I can recall. There may have
- 21 been other people in the room. The only people
- 22 I encountered in that room were Joe, Tad, Adam,
- 23 McLeod would come in occasionally, and then
- that one occasion where one of the presiding officers had come in the room. Other than that

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- 1 districts.
- 2 Part of what that would indicate is if
- 3 you simply looked at it visually it would
- 4 create something resembling something like an S
- 5 curve. You could see the point at which a
- 6 party got stronger or weaker, the possibility
- 7 of its district tipping in one direction or
- 8 another. So it was simply a visual shortcut
- 9 for somebody who doesn't like numbers to look
- at a visualization of a map and understand how
- it would shift in terms of strength for one
- party or the other. And those were, again,
- very large files that if we printed them out
- would cover half this table.
- 15 Q. All right. I've got a couple of
- 16 questions about that. Let me just ask you
- 17 before I jump to the computer. You mentioned
- 18 printing out this bivariate correlation table
- and you said it would cover about half of the
- 20 -- it would cover half the table or so if you
- 21 brought it in here?
- 22 A. Well, if we brought it in here,
- seriously, it would cover from here to you and
- 24 across. A giant sheet of paper.
- 25 Q. Where was that printed out?

- I had no contact with anybody in that room. It
- 2 was usually just the three -- it was usually
- 3 just Mr. Handrick, Mr. Ottman and Mr. Foltz.
- 4 Q. And that's the mapping room when you
- say "that room"?
- 6 A. The mapping room, ves.
- 7 Q. All right. Now, would you be able to
- 8 identify looking at either your -- the flash
- 9 drive from the Baldus case or the flash drive
- you produced to us a week ago, would you be
- able to recognize those files?
- 12 A. If I see it, I'll recognize it, yes.
- 13 Q. I'm going to give you a second here or
- a minute or two to just sort of scroll through
- and see if you can identify them.
- 16 A. Okay. Why don't we start with this
- one? I'm starting with the Lexar file, the
- 18 Lexar zip drive.
- **MR. EARLE: It's 31.**
- 20 Q. (By Mr. Poland) That's Exhibit 31. So
- 21 that's the flash drive you produced a week ago,
- 22 Dr. Gaddie?
- 23 A. Yes.
- MR. EARLE: Would it help to sort by
- 25 size?

Page 110 Page 112 1 THE WITNESS: It would definitely help it's also on the Exhibit 57, too. to sort by size. And it would be -- in all 2 MR. POLAND: Okay. It's on both. 2 likelihood it would be an Excel file. MR. KEENAN: Yeah. 3 3 MR. EARLE: Oh, you opened it? Q. (By Mr. Poland) All right. So Dr. 4 4 THE WITNESS: Yeah, let's take a look Gaddie, the table itself is what was printed 5 at it. I didn't do anything. Let's take a 6 out and displayed in the mapping room at 6 Michael, Best & Friedrich? 7 look at it, though. 7 MR. EARLE: It will take a moment to A. This was printed off, yes. 8 Q. All right. Now, this -- you had 9 9 10 THE WITNESS: Okay. That is not it referred to visual aids in Exhibit 36, in your because that's another version of the root memo. 11 electoral data. 12 A. Right. 12 13 Q. (By Mr. Poland) Are you still on the Q. This is a visual aid that you referred 13 flash drive that you produced last week? to? 14 14 15 A. Yes. And again, depending on the 15 A. Yes. It's the thing we look at. file, it may not be that. While it's a large Q. Fair enough. 16 16 printout, it's a single dimension flat file, so A. It passes the ocular test. 17 17 -- again, that's the data orientation file off Q. Okay. And how exactly does the of -- let's go down here and look further. May Wisconsin correlates work as a visual aid? Can 19 19 20 I? If you don't mind. you explain it to me briefly? 20 MR. EARLE: Help yourself. A. Well, again, what we have is we have a 21 22 A. Here it is. Okay. If you go down you whole series of different elections that take will find a directory on the Lexar drive that place and we have precinct level data, VTD is entitled Wisconsin 2010. level data on all these elections. And what MR. EARLE: That's Exhibit 31. this table is, this is simply a Pearson's 25 Page 111 correlation coefficients table. Okay? Which

- 1 A. Exhibit 31, yes. And if you open it
- 2 up you'll see a file that's called Wisconsin
- 3 correlates which was created on April 15, 2011.
- 4 Q. (By Mr. Poland) All right. So we're
- on Exhibit Number 31. And I'm sorry, the file
- number is? 6
- 7 A. It's under the directory. It's under
- the folder Wisconsin 2010.
- 9 Q. Wisconsin 2010. All right.
- 10 A. Yes.
- 11 O. And it's called
- Wisconsin\_correlates.xlsx. Now, that only 12
- 13 shows up as 111 kilobytes on mine.
- 14 A. Well, it's not --
- 15 Q. That's all right.
- 16 A. We're looking at it over here.
- Actually, it may not -- again, it's a 17
- 18 physically large document printed out, but
- because it has -- it is only cell entries. It 19
- has no macros inside of it. It has no -- you 20
- 21 know, it's a very simple file. It's a flat
- file, for all intents and purposes.
- 23 Q. I understand. Now, so I have it open
- and I'll wait for counsel to get there, too.
- MR. KEENAN: I am. I would note that 25

- means that it is testing the linear 2
- 3 relationship between two variables. So the
- vote for governor at the precinct level, how
- does it correlate with the vote for secretary 5
- of state? The vote for secretary of state, how 6
- does it correlate with the vote for assembly? 7
- 8 The vote for assembly, how does it correlate
- with the state senate? We're looking at 9
- pair-wise relationships for every election for 10
- which we have data. Okay? 11
- And in order to explain why we should 12
- 13 use the regression equation or why these
- variables were all related, generating this 14
- large visual and then showing it to people was 15
- the easiest way to communicate this information 16
- 17 because -- I'll give you an example. If you
- just look at the -- I would say just look in 18
- the far northwest corner. ASM 2010 Dem. 19
- That's the assembly vote in 2010 for the 20
- Democrat on rows 3, 4, 5 -- column 3, 4 -- row 21
- 3, 4, 5. And then you look at Column C, 22
- assembly 2010 Dem, that's the vote for 23
- Democrat. You notice the Pearson correlation
- is one? 25

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- 1 Q. And then you mentioned another that
- 2 you had developed with color-coded cells to
- 3 indicate what you had called the S curve?
- 4 A. Yeah. Let's see if we can find one of
- 5 those. Can I close this up?
- 6 Q. Yes, please do.
- 7 A. Okay. Thank you. Let's see if we
- 8 don't have one of these sitting around here.
- 9 While I am not seeing one here, I can explain
- 10 -- give me a moment.
- 11 Q. Sure.
- 12 A. Here's the thing. In substance they
- would strongly resemble the Tad\_1\_05272011
- 14 file, let's look on the other drive and see if
- we can't find a specific example.
- 16 Q. Sure. And when you said "the other
- drive," you mean look on the one that you
- 18 produced in the Baldus case?
- 19 A. Yeah.
- 20 Q. Do you want to look in the Baldus case
- 21 drive then?
- 22 A. Yeah, if you don't mind.
- 23 Q. Sure. Wherever you think it might be,
- 24 Dr. Gaddie.
- 25 A. I appreciate that. Give me just a

1 Q. Uh-huh.

- 2 A. That's because we're measuring the
- 3 same thing twice. Of course it's perfectly
- 4 correlated. You look one column over, Dem 2010
- 5 REP, you notice there's a negative .960 with a
- 6 little asterisk next to it? That's a Pearson's
- 7 correlation coefficient of negative .96. What
- 8 it means is that there's a strong negative
- 9 correlation between the strength of the
- 10 Republican vote for assembly and the strength
- 11 for the Democratic vote.
- The reason it's not a perfect
- 13 correlation is sometimes independents run.
- 14 Right? So there's a little bit of noise in
- there. But if you continue over. Look, for
- example, at ASM 2002 DEM. There's a .696
- Pearson's correlation between the Democratic vote in 2002 for the assembly and the vote in
- 19 2010 for assembly. So it's not a perfect
- 20 linear relationship. Okay?
- So again, what we're trying to do is
- show initially all these elections appear to be
- 23 interrelated to a greater or lesser agree. If
- a Person's value is negative it means that the
- outcome is negatively associated with the other

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- 1 variable. Okay? If it's positive, it means
- 2 there's a positive relationship. The closer
- 3 the absolute value is to zero, the weaker the
- 4 relationship. A value of one means a perfect
- 5 correlation.
- 6 So I was treating this as a data
- 7 reduction technique to be able to show people
- 8 why it was that we looked at these statewide
- 9 elections to build a model for assembly
- 10 elections.
- 11 Q. All right.
- 12 A. So that's what -- it was a big
- marshaling of data for about a two-minute
- 14 point. Okay?
- 15 Q. And you mentioned it was done down to
- the precinct level. Was it at the ward level?
- 17 A. A ward is a precinct, yes. A voter
- turn-out district, a VTD.
- 19 Q. As small as you could get, as you had
- 20 testified.
- 21 A. Smallest available unit from the
- 22 division of elections, yes.
- 23 Q. All right. So this is one of the
- visual aids that you had constructed?
- 25 A. Yes.

- 1 minute. I'm sure we're opening it eventually.
- 2 Let me just make sure it's going to answer the
- 3 question.
- 4 Do you want to open this up? This is
- 5 not it, but it may have been the foundation.
- 6 That's not it. Sorry about that.
- 7 Here we go. No, no, sorry about that.
- 8 I'm sorry, gentlemen, it's been a few years
- 9 since I've messed with this. So I'm going to
- 10 ask you to bear with me. Thank you.
- 11 Q. Is there any kind of a naming
- convention that you recall using?
- 13 A. I'm trying to remember.
- 14 Q. Do you know whether -- you had
- mentioned S curve before. Do you know whether
- curve would have been in a file name?
- 17 A. It's possible. Again, here's the
- 18 thing. I can remember visualizing these. I
- can remember their generation, and I cannot
- 20 remember what I would have named them or saved
- 21 -- actually, let's --
- 22 Q. If I were to have you take a look at
- one of my computers, would you be able to --
- 24 A. Would that be okay?
- 25 Q. Yeah, absolutely.

- 1 A. I'm going to go off mic for just a
- 2 second and walk over and look and I will come
- 3 back.
- 4 MR. EARLE: In other words, he's going
- 5 to be untethered.
- 6 Q. (By Mr. Poland) Just generally
- 7 speaking, is this what it looks like?
- 8 A. Yes, that's what I'm looking for.
- 9 Well, let me answer the question on mic.
- 10 Yes.
- 11 Q. All right. What I'm going to do then
- is I'm going to mark another flash drive as an
- 13 exhibit.
- MR. EARLE: Which should I take out?
- 15 MR. POLAND: None.
- MR. EARLE: I think I'm out of jacks.
- 17 THE WITNESS: Maybe there's another
- 18 jack over there. Is there another jack there?
- MR. EARLE: No.
- MR. POLAND: All right. Why don't --
- THE WITNESS: I have an idea. Let's
- 22 go off record while you guys work this out.
- 23 I'm going to go to the bathroom and be back in
- 24 two minutes.
- MR. POLAND: That's a good solution.

- 1 are photos of hard drives, or this is a photo
- 2 of a hard drive, and you will see one says
- 3 Republican and one says senate Republican and
- **4** ASM?
- 5 A. Yes.
- 6 Q. Did you ever see any external hard
- 7 drives that looked like these in Exhibit 38
- 8 when you were working at Michael, Best &
- **9** Friedrich?
- 10 A. I don't recall them.
- 11 Q. Did you ever do any work yourself on
- any of the redistricting at Michael, Best &
- 13 Friedrich?
- 14 A. I never touched the computers inside
- 15 the room.
- 16 Q. You worked exclusively on one of your
- 17 own computers?
- 18 A. Yes.
- 19 Q. I've had marked as Exhibit Number 37 a
- 20 flash drive and I've given copies of it to
- 21 counsel. Have you ever heard -- strike that
- 22 question.
- Are you aware of any of the
- post-judgment proceedings in the Baldus case?
- 25 A. No.

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- 1 Let's do that.
- 2 THE VIDEOGRAPHER: Going off the
- 3 record. The time is 11:53 a.m.
- 4 (Recess.)
- 5 (Exhibit No. 37 and 38 marked.)
- 6 THE VIDEOGRAPHER: We are back on the
- 7 record. The time is 12:01 p.m.
- 8 Q. (By Mr. Poland) Dr. Gaddie, when you
- 9 were working at the Michael, Best & Friedrich
- office in 2011, do you recall that there were
- 11 several computers that were used for
- 12 redistricting?
- 13 A. Yes.
- 14 Q. And do you recall that Mr. Foltz, Mr.
- 15 Ottman and Mr. Handrick each used one of those
- 16 computers?
- 17 A. Yes.
- 18 Q. Did you ever see any external hard
- 19 drives connected to those computers?
- 20 A. Not that I recall, no.
- 21 Q. I'm going to hand you a document
- that's been marked as Exhibit Number 38 and ask
- you to take a look at it.
- 24 A. Okay.
- 25 Q. And I will represent to you that these

- 1 O. Are you aware that there was some
- 2 discovery into the redistricting computers that
- 3 were conducted?
- 4 A. No.
- 5 Q. Are you aware that the Baldus
- 6 plaintiffs obtained an order from the court
- 7 allowing them to conduct a forensic analysis?
- 8 A. No.
- 9 Q. Have you ever heard of a name --
- 10 computer forensic expert named Mark Lanterman?
- 11 A. No
- 12 Q. I'm going to remind you that the
- 13 Baldus plaintiffs retained a computer forensic
- 14 expert named Mark Lanterman --
- 15 A. Okay.
- 16 Q. -- who obtained possession of the hard
- 17 drives, both internal and external, from the
- 18 computers that were used by Adam Foltz and Tad
- 19 Ottman and has conducted certain analyses on
- 20 those computers. Okay?
- 21 A. All right.
- 22 Q. Now, let's take a look -- we're going
- to go to the flash drive that's Number 37 that
- 24 I provided to you.
- 25 A. Okay.

- 1 Q. If you look in the directory for
- 2 Exhibit Number 37 you should see that there are
- 3 four subfiles or subfolders. One says WRK
- 4 32587 External HD. One says WRK 32587. The
- 5 next one says WRK 32586 External HD and WRK
- 6 32586. Do you see those?
- 7 A. Yes.
- 8 Q. I would like you to open the first of
- 9 those folders, the WRK 32587 External HD.
- 10 A. Okav.
- 11 Q. And you should see one subfile that
- says External or says Responsive Spreadsheets
- and then there's another file that's an XL
- 14 file. Do you see that?
- 15 A. Yes.
- 16 Q. I would like you to look at the XL
- **17** file.
- **18** A. Okay.
- 19 Q. And open it up and take a look at it.
- MR. KEENAN: Could you repeat that
- 21 folder?
- MR. POLAND: It should be the first of
- 23 the folders that appears on that flash drive.
- MR. KEENAN: 32587?
- MR. POLAND: External HD. And then

- 1 A. Yes.
- 2 Q. All right. Now, if you scroll over on
- 3 the spreadsheet. Just go over to your right
- 4 all the way over to the columns that identify
- 5 author and last saved by.
- 6 A. Yeah.
- 7 Q. Can you identify who that is?
- **8** A. That would be my name.
- 9 Q. Right. Both as author and last saved
- by for lines 91 through 94, correct?
- 11 A. Yes.
- 12 Q. And what date does the meta indicate
- 13 that it was created?
- **14** A. May 28.
- 15 Q. All right. At 8:12 in the morning,
- 16 correct?
- 17 A. Yes.
- 18 Q. All right. Now what I would like you
- 19 to do is -- well, actually, let me ask you this
- 20 question first. Do you know why there would be
- 21 four different -- four different files with the
- same name, Tad Senate Assertive Curve?
- 23 A. No.
- 24 Q. Now what I would like you to do is
- we're going to take a look at that file.

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- 1 we're just going to take a look at the
- 2 responsive spreadsheets file detail report.
- 3 Q. (By Mr. Poland) Okay. Do you have
- 4 that open, Dr. Gaddie?
- 5 A. Yes.
- 6 Q. All right. And so you see up at the
- 7 top there's a header on that document that says
- 8 External HD Responsive Spreadsheet File Detail
- 9 Report?
- 10 A. Yes.
- 11 Q. And this is for the computer report
- that's WRK 32587. Do you see that?
- 13 A. Yes.
- 14 Q. All right. Now, if you scroll down to
- -- I would like you to take a look at lines
- Number 91 through 94 on that spreadsheet. 91
- 17 through 94.
- 18 A. Yes.
- 19 Q. All right. And do you see that the
- 20 file names, 91 is Tad Senate Assertive Curve?
- 21 A. Yes.
- 22 Q. And 92 is Tad Senate Assertive Curve?
- 23 A. Right.
- **24** Q. Number 93 has the same alternate file
- name and 94 as well. Do you see that?

- 1 A. Okay.
- **2** Q. So if you go back out to the folder
- 3 itself we should be able to find it there.
- 4 MR. EARLE: Let me make this -- oh,
- 5 shit.
- 6 MR. POLAND: We're on the record.
- 7 Peter.
- 8 MR. EARLE: Oh. No, the court
- 9 reporter's hands weren't on it. I'm trying to
- 10 make it easier for Keith to see here. Let me
- 11 get the screen adjusted. I'm trying to move a
- 12 column over.
- 13 Q. (By Mr. Poland) So we're going to be
- looking in the folder that says WRK 32587
- 15 External Responsive Spreadsheets Duplicated.
- 16 A. Okav.
- 17 Q. It's actually not very far down, at
- 18 least in my directory.
- MR. EARLE: Can you give me the name
- 20 again?
- MR. POLAND. Sure. It's Tad Senate
- 22 Assertive Curve.
- MR. EARLE: Do you want me to open it?
- MR. POLAND: Yes, please open it.
- **25** Q. (By Mr. Poland) Are you there?

Whitford; et al vs Nichol; et al

1 A. Yes.

- 2 Q. Now, just before we broke you had been
- 3 talking about a visual aid to indicate what you
- 4 called an S curve.
- 5 A. Yes.
- 6 Q. Is this file that we're looking at
- 7 right now, this Tad Senate Assertive Curve, is
- 8 that what you're talking about in terms of a
- 9 visual representation of an S curve?
- 10 A. Yes.
- 11 Q. I'm not familiar with the term S
- 12 curve.
- **13** A. Okay.
- 14 Q. Could you please describe what that
- 15 is?
- 16 A. Yeah. Now, let me lay this aside over
- 17 here. There is a mini lecture, but we're going
- to keep it tight. In single member district
- 19 systems, especially under a two-party system,
- 20 the responsiveness of votes to seats is not
- 21 expected by political scientists to be strictly
- proportional. That is to say, if you get 60%
- of the vote you're not expected to get 60% of
- 24 the seats. If you get 40% of the votes, you're
- not expected to get 40% of the seats. The

- of what an S curve response might look like in
- 2 order to help people visualize the impact on
- 3 particular districts. Okay? Because in a
- 4 traditional S curve representing the percentage
- 5 of districts you win relative to the percentage
- 6 of the vote that you obtain.
- 7 What this visual does is it orders
- 8 districts from the strongest to the weakest for
- 9 one party or another. Okay? And it shows
- 10 based upon an expected statewide vote for one
- 11 party or the other which seats are going to
- tend more Democratic shaded in blue, more
- 13 Republican shaded in red. Light blue means
- 14 that they're Democratic tending, but
- 15 competitive. Orange means they're Republican
- 16 tending but competitive.
  - You'll notice that as we move to the
- 18 left the Democrats are stronger, the
- 19 Republicans are weaker, more seats come into
- 20 play for the Democrats or become safe for the
- 21 Democrats. As we move to the right more seats
- become safe for the Republicans and fewer seats
- become safe for the Democrats.
- So for this map, and there should be
- other examples, what we do is you simply -- you

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17

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- expectation is that the combination of
- 2 competitive and noncompetitive districts will
- 3 create a seat bonus for parties that get a
- 4 disproportionately large number of seats based
- 5 on relatively small majorities and then that
- 6 effect tapers off. Similarly, if you're
- 7 falling below 50%, you may incur a somewhat
- 8 larger penalty in terms of the seats that you
- 9 accrue. Okay?
- So instead of having a relationship
- where, let's say, you know, this is the number
- of seats you get on this axis and this is the
- number of votes you get on this axis, if there
- were a one-to-one relationship you would expect
- to see a 45 degree curve. What the S curve
- does is it moves like this. At 50% of the vote
- you expect to get 50% of the seats. But once
- 18 you get above that you're going to get some
- bonuses and it eventually will taper off and
- 20 you're going to hit a ceiling above which you
- cannot gain additional seats because the other parties will be too secure. Similarly, as you
- parties will be too secure. Similarly, as you fall off, you'll hit a floor that you can't
- 24 drop below. That's the S curve.
- 25 What we have here is a representation

- generate the point estimate from the regression
- 2 equation of the expected vote and then it is
- 3 simply color coded based upon the vote range
- 4 using one of -- using a macro in Excel so that
- 5 after you've coded in the initial vote share
- 6 from the actual regression equation, as you
- 7 move the value of the vote for one party either
- 8 up or down, you can see the responsiveness of
- 9 the districts and how they shift and the number
- of seats that come into play for one party orfall away.
- So again, a visualization of both the
- distribution of partisanship in the districts
- and the sensitivity of individual districts to
- 15 changes and partisan strength across the state,
- assuming that the entire state shifts in the
- same direction one way or the other. And
- that's what this device was meant to do.
- 19 Q. Now, I note that the file name is Tad
- 20 Senate Assertive Curve.
- 21 A. Yes.
- 22 Q. Does that have any meaning for you?
- 23 A. This was an aggressive map. It's an
- 24 assertive map. This is a map that, indeed if
- you look at it, it is a map that makes an

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- 1
- assertive move towards Republican advantage.
- **2** Q. Do you know -- strike that question.
- We saw just a minute or two ago when
- 4 we looked at the directory that this was
- 5 created toward the end of May when you were in
- 6 Madison, correct?
- 7 A. That's correct.
- 8 Q. All right. Did you create this S
- 9 curve on your own computer, do you recall?
- 10 A. When I first created these I created
- 11 them on my own computer. Doug, I'm trying to
- 12 remember. The first time I created these, I
- created them on my own computer. I have no
- memory of ever touching one of those machines
- in there. In fact, this was one of my terms
- and conditions was I'm not supposed to touch
- 17 the machines. So I would have created this
- 18 curve, given the file to Tad because I couldn't
- 19 print the big wide carriage printer from my
- 20 laptop. It had to go to one of the three
- 21 mapping machines to be able to communicate with
- 22 the wide carriage full color printer inside,
- 23 inside the room.
- 24 Q. So these were -- these S curves were
- actually printed out, is that correct?

- 1 that.
- 2 Do you know how the senate district
- 3 boundaries represented by the Tad Senate
- 4 Assertive Curve matched up with the boundaries
- 5 of the final map?
- 6 A. I don't know.
- 7 Q. When you were gathering your
- 8 responsive data to respond to the subpoena in
- 9 the Baldus case and also to respond to the
- subpoena in this case, do you recall ever
- seeing any of these S curve maps among the
- materials that you reviewed?
- **13** A. I don't recall. I simply turned over
- 14 all material.
- **15** Q. Do you know why these files might not
- have been on your computer but were on Mr.
- 17 Ottman's computer?
- 18 A. No.
- 19 Q. You can close out that file. I would
- 20 like to take you back to the directory that we
- 21 were looking at before, which is the external
- 22 HD responsive spreadsheets file detail report.
- 23 A. Uh-huh.
- MR. EARLE: That's 87 external?
- MR. POLAND: I'm sorry. Yeah. That's

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- 1 A. Yes, at least some of them were. I
- 2 can recall some being printed out, yes.
- 3 Q. Do you recall whether the Tad Senate
- 4 Assertive Curve was printed out?
- 5 A. I don't remember.
- 6 Q. Do you recall specifically any of them
- 7 that might have been printed out?
- 8 A. Offhand, no. I recall -- I can recall
- 9 some being printed out. I can't recall which
- 10 ones.
- 11 Q. Did you look at these printouts with
- any of the other members of the redistricting
- 13 team?
- 14 A. The only people I ever looked at these
- 15 curves with were Mr. Ottman, Mr. Foltz and Mr.
- 16 Handrick. I cannot recall if the pro tem was
- in the room when we looked at one of these or
- not, but he's the only lawmaker I ever saw in
- 19 the room. I can't recall if we showed him this
- 20 visual or not.
- 21 Q. All right. And that's Senator
- 22 Fitzgerald, correct?
- 23 A. Yes.
- 24 Q. Do you know how close this Tad Senate
- 25 Assertive Curve mapped up with the -- strike

- 1 WRK 32587.
- 2 Q. (By Mr. Poland) If you'd scroll down
- 3 and you look at lines 145 through 147, please.
- 4 And you'll see those again say Tad Senate
- 5 Assertive Curve. Do you see that?
- 6 A. Yes.
- 7 Q. And then if you scroll over in the
- 8 spreadsheet over to the author and last saved
- 9 by, you'll see that you are identified as the
- author of those three, correct?
- 11 A. I'm not seeing it yet.
- **12** Q. Okay.
- 13 A. Are we there yet?
- 14 Q. It's Column H.
- 15 A. Thank you.
- MR. EARLE: Wait a second. This moves
- 17 a lot faster.
- MR. POLAND: These are Lines 145
- **19** through 147.
- MR. EARLE: Got it.
- 21 A. I see that.
- 22 Q. (By Mr. Poland) Do you see that you're
- 23 the author?
- 24 A. Yes.
- 25 Q. And then you see it says last saved by

2 A. Yes.

T. Ottman?

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looks like a very different picture than what

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- we saw from the Tad Assertive Map. Am I
- correct in that? 3
- A. Yes.
- 5 Q. All right. How so? How is it
- 6 different?
- A. Well, I would have to look at both of
- them to tell you. The band of responsive
- districts at the mid point are -- it's broader
- and it is less heavily skewed to the
- Republicans, according to this graphic.
- Q. So the Tad Assertive map that we 12
- looked at for the senate was more heavily
- skewed in favor of the Republicans, is that 14
- 15 correct?
- A. Yes. 16
- Q. And as you're testifying today, you 17
- don't know whether that reflects the senate
- districts that were ultimately part of Act 43? 19
- 20 A. That's correct.
- Q. Do you recall putting side by side any
- of these S curves that -- printouts of the S
- curves that had current districts versus other
- potential districts?
- 25 A. I don't recall.

4 A. Yes.

5 Q. Then I would like you to scroll down

3 Q. And that's Tad Ottman, correct?

- to Rows 247 through 250. Let me know when
- you're there.
- MR. EARLE: We're there.
- 9 Q. (By Mr. Poland) Okay. So do you see
- the 247 through 250, the name is Senate Current
- Curve? 11
- 12 A. Yes.
- 13 Q. Do you see that?
- 14 A. Yes.
- 15 Q. And then if you again scroll over to
- look at the author and last saved by, you'll
- see those are both -- those both have your
- name, correct?
- 19 A. Yes.
- 20 Q. And do you see that there is a created
- date as well?
- 22 A. Yes.
- 23 Q. And it's the same date, correct, 5/28?
- 24 A. Yes.
- 25 Q. Do you know, just looking at the file

- 1 O. Did you recall making any observations
- or recommendations to Mr. Ottman, Mr. Handrick
- or Mr. Foltz about the aggressive nature of the
- maps that were being revealed or displayed by
- the S curves that were created? 5
- A. I don't recall any specific comments.
- I might have made a recommendation. I'm sure
- it came up, but I don't remember.
- Q. All right. I want to go back then
- just to see if there were any other
- spreadsheets that I want to look at from that
- external hard drive. So give me just a second 12
- 13
- I think I'm done with the external --14
- that particular external hard drive. What I 15
- would like to do then is go through the same
- 17 exercise on the next computer, the WRK 32587.
- So if you look up -- open up the responsive 18
- spreadsheets file data report for the 32587 19
- computer. 20
- MR. EARLE: We're there. 21
- Q. (By Mr. Poland) Okay. If you would go 22
- to Rows 149 through -- well, let's just start 23
- out with 149. Let me ask you about 149 through 24 25 159.

- name -- and we'll open up the file here in just
- a second -- do you know offhand what the Senate 2
- 3 Current Curve represents?
- 4 A. That should have been the curve for
- the baseline map, for the pre-redistricting 5
- 6
- 7 Q. Does this indicate that, in giving the
- time that you're looking at these, that there
- was a comparison of the S curves of the current
- map with the Tad Assertive Map? 10
- 11 A. It's possible, ves.
- 12 Q. Let's go ahead and find the Senate
- 13 Current Curve among the spreadsheets themselves
- and let's open that one up. 14
- MR. EARLE: Tell me which one again. 15
- MR. POLAND: Sure. Senate Current 16
- 17 Curve -- it's actually not -- it's one, two,
- three, four, five, six -- it's seven down in 18 the external -- the WRK 32587. Do you see it? 19
- THE WITNESS: Right there above my 20
- 21
- MR. POLAND: Are you there? 22
- THE WITNESS: Uh-huh. 23
- 24 Q. (By Mr. Poland) Okay. This looks like
- a very, very -- just to my untrained eye it

- 1 We had to find a way to get files off of my
- 2 laptop to their machine to be able to print.
- 3 And the wireless was lousy, so I couldn't
- 4 e-mail them.
- 5 Q. You don't recall using flash drives
- 6 for any of that?
- 7 A. It could have been a flash drive.
- 8 Doug, I just don't remember. We got them off
- 9 my machine and got them to them. And one thing
- you'll note is that a file will be accessed and
- 11 then saved later by Tad, open it up, prepare it
- 12 for printing, save it. It's entirely possible
- 13 he -- the other thing is, once you create this
- 14 type of file, it's possible to load new data
- into it and create new spreadsheets if you have
- access to the regression equation we talked
- 17 about previously.
- I don't recall that happening. But I
- generated these -- I generated these initially
- 20 on my computer and created them and then handed
- 21 them off to Mr. Ottman. And I would imagine to
- 22 Mr. Foltz as well. I just don't remember.
- 23 Because we did these for both assembly and for
- senate.
- **25** Q. Would you take a look also at -- we're

1 A. Okay.

- MR. POLAND: And are you there?
- 3 MR. KEENAN: Uh-huh.
- 4 Q. (By Mr. Poland) Okay. So you see that
- 5 all of those are senate current curves?
- 6 A. Yes.
- 7 Q. And you see that if you -- actually,
- 8 scroll over to the author, you'll see that you
- 9 are identified in 149 through -- I'm sorry,
- through 158, I think it is, you're identified as the author of each of those?
- 12 A. Yes.
- 13 Q. All right. Now, on 149, Row 156 and
- 14 Row 158, it indicates they were last saved by
- 15 you, correct?
- 16 A. It appears so, yes.
- 17 Q. And the others, which is Row 150, 51,
- 18 52, 53, 54, 55 and then 57, Mr. Ottman last
- 19 saved those, correct?
- 20 A. Yes.
- 21 Q. All right. Now, if you scroll back
- over to the left again where we had the --
- where we had the file name, you'll actually see
- 24 a file path.
- 25 A. Right.

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- 1 Q. Do you see that?
- 2 A. Yeah.
- 3 Q. All right. Now, I would like you to
- 4 look at 149, 150, 152, 154. Do you see that in
- 5 each of those file paths there's a reference to
- 6 Drop Box?
- 7 A. Yes, I do.
- 8 Q. Did you ever use Drop Box in
- 9 transmitting any files to Mr. Ottman or
- 10 receiving any files from Mr. Ottman?
- 11 A. I didn't start using Drop Box
- 12 personally until just a couple of years ago.
- Doug, I'm going to have to guess into this
- based upon what was going on in the room. I
- 15 created these series of initial curves. I
- would assume that we logged to Drop Box, moved
- 17 them from my computer to Drop Box and pulled
- 18 them down. I don't remember. But I created
- 19 these initial files, I know that.
- 20 Q. Okay.
- 21 A. But how -- but again, I hadn't started
- using Drop Box for any purpose until in the
- 23 last couple of years. And I've never used it
- 24 for transmitting districting documents. I
- 25 don't remember doing those, but it must be why.

- 1 going to look at Rows 169 through 178.
- 2 A. Yes.
- 3 Q. And so you see those are Tad Senate
- 4 Assertive Curve?
- 5 A. Uh-huh.
- 6 Q. All right. You've got the same file
- 7 name that we had seen before, correct?
- 8 A. Yes.
- 9 Q. All right. And if you scroll over
- then to the author and last saved by, again,
- we're going to see that you're identified as
- 12 the author of each of those and then on the
- 13 files that are at Rows 169, 172 and 176, it
- 14 indicates they were last saved by you and the
- others were last saved by Mr. Ottman, correct?
- 16 A. Yes.
- 17 Q. Now, as I -- if you go over and if you
- look at the file path a little bit further over
- 19 to the left.
- 20 A. Right. Correct.
- MR. EARLE: There you go.
- THE WITNESS: There we go.
- 23 Q. (By Mr. Poland) There is an indication
- 24 -- in the 169 file path it indicates Drop Box,
- 25 correct?

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- 1 A. Correct.
- 2 Q. Do you see that the next row, 170, it
- 3 says in the file path, there's -- one of the
- names that's in there, it says January maps for
- discovery. Do you see that?
- 6 A. Yes. Yes.
- 7 Q. Does that have any meaning to you at
- all?
- 9 A. Particular meaning, no. I mean, I can
- infer from the file, but I have no particular
- -- it has no particular meaning to me.
- 12 Q. It doesn't. Okay. Yeah, I don't want
- vou to infer there. 13
- And then 178, do you see it also 14
- 15 identifies Drop Box?
- 16 A. Yes.
- 17 Q. And you never received any kind of
- credentials to use Drop Box, a user name or a
- password or anything like that? 19
- 20 A. No. Like I said, I've only been on
- Drop Box for a couple of years.
- 22 Q. Did anybody ever while you were there
- 23 log onto your computer and set you up with Drop
- **Box or Switch It or anything?**
- 25 A. I don't recall. I don't know.

- repaired it, but I'm hesitant to save the
- 2 changes it made to it. I don't know. Which
- one are we in? 3
- MR. POLAND: This is Senate Current 4
- 5
- MR. EARLE: Okay. But I'm afraid --6
- can we go off the record for a second? 7
- MR. POLAND: Sure. 8
- THE VIDEOGRAPHER: Going off the 9
- 10 record. The time is 12:31 p.m.
- (Recess.) 11
- THE VIDEOGRAPHER: We are back on the 12
- record. The time is 12:35 p.m. 13
- Q. (By Mr. Poland) Dr. Gaddie, you have
- the Senate Current Curve Excel spreadsheet open
- that --16
- 17 A. Yes.
- Q. -- we were discussing? All right.
- This looks, to my eye at least, very different 19
- 20 than the previous current curve, Senate Current
- Curve, that we had seen. Am I wrong in that?
- 22 A. I don't know. I would have to look at
- them both. Can we open up both side by side?
- Q. Sure. Remember you had said before in
- the other one it looked like there was a band

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- 1 O. Let's take a look then and go into the
- 2 spreadsheets themselves.
- 3 A. Okay.
- 4 Q. So that would be under the WRK 32587
- responses spreadsheets duplicated.
- THE WITNESS: Peter, I'm working real 6
- hard to not read your instant messages. 7
- 8 Q. (By Mr. Poland) And so let's take a
- look at -- the Senate Current Curve is the
- first one that comes up for me. It's actually 10
- telling me that I can't open it. 11
- **12** A. Should we try it over here?
- 13 O. Yeah.
- MR. EARLE: You want senate -- I'm 14
- going to close my email. Let me just jump over 15
- here for a second. I'm sorry about that.
- 17 MR. POLAND: No worries.
- 18 MR. EARLE: It says I can't open it
- either. 19
- MR. POLAND: You know, it repaired it 20
- 21 for me. I don't know if that --
- MR. KEENAN: I had to click "yes." 22
- MR. POLAND: Yeah, I did, too, and it 23
- repaired it. 24
- MR. EARLE: Open and repair. It 25

- that was going across the middle? We don't see
- that one here. 2
- 3 A. Okav.
- 4 Q. We can certainly open them up side by
- side if you'd like.
- A. Actually, if you could open the other 6
- one up where I can just look on the screen and
- that screen just a moment if you don't mind.
- Q. Oh, yeah, let me do that. So on my
- computer then we'll have up the Senate Current
- Curve that came from the WRK 32587 external
- hard drive. And then you've got from the WRK 12
- 13 32587 on yours?
- 14 A. Okay. Actually, the reason they're
- different --15
- O. Yes. 16
- A. If you're asking me to illuminate the
- difference. 18
- Q. Yes. 19
- A. If you look at this file that is on my 20
- screen, it has been sorted from strongest to
- weakest district. That one, if you look, is 22
- sorted by a senate district number. 23
- 24 Q. I see. Okay.
- 25 A. So if we sort that from strong to

- 1 weakest, it should sort itself out to look like
- 2 the curve like we have here.
- 3 Q. Okay. Got it. So what I did was I
- went through and I clicked on Composite. Would
- 5 that do it?
- 6 A. Well, let's see. Yeah. No, that's
- 7 not it either.
- 8 O. That's not it either. Okay. All
- 9 right. But it should do that?
- 10 A. It does.
- 11 Q. It appears to you that it's a sorting
- 12 issue?
- 13 A. It's a sorting issue.
- 14 Q. Okay. Well, you can close out of that
- spreadsheet. Or I'm sorry, I'm going to close
- out of that spreadsheet. And I'll also close
- out of the other senate current curve.
- MR. EARLE: Close this one?
- MR. POLAND: Yes, you can close that
- 20 one, too.
- **21** Q. (By Mr. Poland) The other that I
- wanted to have you open on the WRK 32587
- 23 responsive spreadsheets is the Tad aggressive
- 24 -- I'm sorry, Tad Assertive. Although as I
- scroll down I see there's a Tad Assertive Curve

1 open up the Tad Senate Assertive Curve 1. And

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- are you able to view both of those at one time?
- 3 A. Yes.
- 4 Q. Side by side?
- 5 A. Well, side by side --
- 6 Q. There is actually a way to do it if
- 7 you put your cursor over the little green
- 8 circle in the upper left-hand corner and you
- 9 hold it, it will take up half the screen.
- LO A. Bear down on it. Oh, there we go.
- 11 No. No.
- MR. EARLE: I did something wrong.
- 13 What did I do?
- 14 THE WITNESS: I don't know.
- MR. EARLE: I'm sorry.
- THE WITNESS: That's all right, Peter.
- 17 I have an idea. Let's just escape out of that.
- 18 Hang on.
- MR. POLAND: I can also have you take
- 20 a look on my screen if that would be easier.
- THE WITNESS: I think we're getting
- 22 this worked out here. Okay. So this is Curve
- 23 1 and this is Curve. Okay. Yes.
- 24 Q. (By Mr. Poland) Is there a difference
- between the Tad Senate Assertive Curve and the

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- and then there's a Tad Senate Assertive Curve
- 2 1.
- з A. Yes.
- 4 Q. Do you see those right below one
- 5 another?
- 6 A. Yes.
- 7 Q. Let's take a look at the Tad Senate
- 8 Assertive Curve first.
- 9 A. Okay.
- 10 Q. And I'm getting the same open and
- 11 repair message as I had before.
- MR. EARLE: I think we're all doing
- the same thing. That will be on the exhibit
- 14 itself, the repair.
- MR. POLAND: That will be on the
- 16 exhibit?
- MR. EARLE: That's what we're working
- off is the exhibit itself.
- MR. POLAND: Yes. Yes.
- MR. EARLE: So the record shows that
- 21 is all I'm saying.
- 22 Q. (By Mr. Poland) Are you there, Dr.
- 23 Gaddie?
- **24** A. Yes.
- 25 Q. Let's leave that one up and then let's

- 1 Tad Senate Assertive Curve 1?
- 2 A. Yes, there are a set of differences
- 3 that illuminate. The assertive curve has a
- 4 broader range of competitive districts if you
- 5 look around where it says composite or all 50.
- And there's a more even balance. The Assertive Curve 1 has a narrower band. Now, I -- I'm not
- 7 Curve i has a harrower band. Now, 1 -- 1 iii ii
- 8 -- okay. These are not -- I mean, if you look
- 9 at the numbers inside the cells, these are not
- 10 data from the same map.
- 11 Q. They're not data from the same map?
- 12 A. Well, I mean, the inputs can't be data
- from the same map because the output is
- 14 different.
- 15 Q. Okav.
- 16 A. It's possible that this could be a
- saving of another map or of the baseline map
- and the data file name wasn't updated.
- 19 Q. So there are two different maps that
- are portrayed on these two different S curves?
- 21 A. Potentially, yeah. But these are
- 22 definitely not the same district data going
- 23 into computing this. These are not data for
- 24 the same map.
- 25 Q. Again, just from my eye, it looks like

- 1 the Tad Senate Assertive Curve 1 has more safe
- 2 Republican districts and more safe Democratic
- 3 districts, too. Am I looking at that wrong?
- 4 A. Let's focus on a particular -- where
- 5 -- Counsel, where in the -- let's pick a
- 6 particular column to look at. So let's say we
- 7 look at the column that says --
- 8 Q. How about Index 58, for example?
- 9 A. Index 58. Okay. We're getting pretty
- 10 far over in the skew.
- 11 Q. Yeah.
- 12 A. But, yeah, let's go over that. Index
- 13 58 there is only one competitive district in
- 14 the entire map, and it's a Democratic leaning
- map. Now, let's recall, however, this is also
- an estimate of the partisan performance of the
- 17 plan where Republicans were averaging 58% of
- the votes statewide. That's what Index 58
- 19 means.
- **20** Q. And that reflects the way that that
- 21 particular map was drawn, correct?
- 22 A. Yes. So if we were to look over at
- Index 50, we would discover that again there's
- only one competitive leaning Democratic
- 25 district, a number of safe Democratic

- place to break for lunch.
- THE WITNESS: I'm doing fine if you
- 3 want to keep going. If you need a break, we
- 4 can break.
- 5 MR. EARLE: I think we should take a
- 6 lunch at some point.
- 7 MR. POLAND: Why don't we do it now.
- 8 Let's go off the record.
- **9** THE VIDEOGRAPHER: Going off the
- 10 record. The time is 12:45 p.m.
- 11 (Recess.)
- THE VIDEOGRAPHER: We are back on the
- 13 record. The time is 12:52 p.m.
- 14 Q. (By Mr. Poland) Dr. Gaddie, I would
- 15 like to move now to a different -- one of the
- 16 hard drives that should be on the directory --
- 17 A. Yes.
- 18 Q. -- of the flash drive that you've got
- 19 there. I would like to look at WRK 32586
- 20 external HD.
- 21 A. Okay.
- 22 Q. All right? And so let's open up the
- 23 external HD responsive spreadsheets file detail
- 24 report file. And let me know when you've got
- 25 it open.

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- 1 districts. Most of the competitive districts
- 2 are leaning Republican in that map. If we look
- 3 at the other graphic assertive curve, which I
- 4 think I'm -- again, you know, I'm looking at
- 5 these data for the first time in four years.
- 6 This appears to be the baseline map or a
- 7 different map that's not nearly so assertive.
- 8 You'll notice that there are other more
- 9 Republican than Democratic leaning districts or
- a sizable number of both. And while there are
- more safe Republican than safe Democratic
- districts, there's a sizable number of both.
- 13 There's a broader band of competition in the
- 14 assertive map than there is in the assertive 1
- 15 map.
- 16 Q. Do you know who drew the maps that
- 17 generated this output?
- 18 A. Well, I would assume since it's -- I
- would assume since it's a senate map it would
- 20 have been Mr. Ottman.
- 21 Q. And since it says Tad Senate
- 22 Assertive?
- 23 A. Right. Yeah.
- 24 Q. Let's close out of those then.
- MR. POLAND: This might be a good

- 1 MR. EARLE: We're open.
- 2 Q. (By Mr. Poland) All right. I would
- 3 like you to look at Row 4. Do you see there's
- 4 a file name Wisconsin Correlates.xlxs?
- 5 A. Yes.
- 6 O. All right. Now, if you scroll over to
- 7 the right, over to author, you'll see that the
- 8 author is listed as CAS build. Do you see
- 9 that?
- 10 A. Yes.
- 11 Q. And that's you, correct?
- 12 A. Yes.
- 13 Q. And it says it was last saved by A
- 14 Foltz. That's Adam Foltz, correct?
- 15 A. Yes.
- 16 O. And then the created date indicates it
- 17 was April 15, 2011, correct?
- **18** A. Yes.
- **19** Q. And that's during the time that you
- 20 were in Madison, right?
- 21 A. Correct.
- 22 Q. Let's take a look then at that
- 23 particular spreadsheet.
- 24 A. Yes.
- 25 Q. And do you know how to pull that up on

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- 1 the -- from the flash drive?
- 2 A. I'm letting Peter fly.
- 3 Q. All right.
- MR. EARLE: Give me the name again.
- 5 THE WITNESS: Wisconsin Correlates.
- MR. POLAND: Wisconsin Correlates. 6
- MR. EARLE: XLXS? 7
- MR. POLAND: Uh-huh.
- 9 A. Okay. We're there.
- 10 Q. (By Mr. Poland) All right. I'm almost
- there. 11
- Now, this is not an S curve, is it? 12
- 13 A. No.
- 14 Q. What is this particular file?
- 15 A. You recall previously we discussed a
- file that was in the documents I gave you all
- that were the Wisconsin correlates, the large 17
- Pearson correlates data set. This is just a 18
- re-rendering of that same file. So these are 19
- 20 the same data that were in that file. So this
- is a table of Pearson's correlates between 21
- 22 different statewide elections and elections for
- assembly again at the ward VTD precinct level.
- 24 Q. Is this a file that you had intended
- again as one of the visual aids that would be

- maps by the map drawers and one was a map that
- was an assertive map, was the term that they 2
- 3 used.
- 4 Q. Do you know what they meant by
- 5 "assertive?"
- A. I would assume politically assertive.
- Q. Meaning more aggressively pro
- Republican?
- A. Yes. 9
- 10 Q. If you look at -- again, this is Row
- 18. If you look over at the author, you'll see
- that you're identified as the author?
- 13 A. Yes.
- Q. And it --
- **15** A. Actually, that would be Column H.
- 17 Q. Yes, Column H, correct. And you'll
- see that it was last saved by Adam Foltz,
- correct? 19
- 20 A. Yes.
- 21 Q. And it indicates it was created on May
- 20, 2011, correct?
- 23 A. Correct.
- 24 Q. And that was during the time that you
- were in Madison, right?

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- 1 printed out and displayed?
- 2 A. Yes. In fact, this is probably the
- 3 version that was printed out and displayed.
- 4 Q. Do you recall again who was there when
- 5 it was printed out and displayed in the map
- room? 6
- 7 A. Again, Mr. Handrick and I looked at
- it. I would assume Mr. Foltz and Mr. Ottman.
- 9 Q. Okay. The next -- you can close out
- of that spreadsheet. 10
- The next row I wanted you to turn to 11
- in the external HD Responsive Spreadsheet File 12
- 13 Detail Report is Row 18.
- **14** A. Okay.
- 15 Q. Tell me whenever you're there.
- 16 A. Okay. We're there.
- 17 Q. Do you see that the file name ends
- with composite\_joe\_assertive\_curve.xlsx?
- 19 A. Yes.
- 20 O. Does the "Joe" there refer to Joe
- 21 Handrick?
- 22 A. Yes.
- 23 Q. And what is meant by "assertive
- 24 curve?"
- 25 A. There was a characterization of some

- 1 A. Yes.
- 2 Q. Let's open up that spreadsheet then.
- 3 A. Okav.
- **4** Q. This is Composite Joe Assertive Curve.
- 5 A. Yes.
- 6 Q. All right. And do you have that up in
- front of you? Do you have it up in front of
- 8 you?
- A. Yes. 9
- 10 Q. All right. Do you recall this
- particular plan that generated this S curve?
- 12 A. I recall that there was -- I recall
- 13 that there was a plan. Details of it I can't
- tell you, but I recall generating this curve
- off of the data from this plan, yes. 15
- Q. All right. Was this plan in 16
- 17 particular compared to any other plan that you
- know of? 18
- A. Again, they may have compared it to 19
- other plans. They may have compared it to the 20
- 21 baseline plan.
- Q. When you were present? 22
- 23 A. No.
- 24 Q. No. Do you know why Joe Handrick
- would have been creating plans as opposed to --

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- actually, strike that question. 2
- Is this for the -- this is for the
- assembly, correct? 3
- 4 A. Judging by the number of districts,
- this has to be an assembly map, yes.
- 6 Q. Do you know why Mr. Handrick would
- have been drawing a map that was an assertive
- 8
- 9 A. I don't know. I guess he was drawing
- an assertive map.
- 11 Q. Okay. Did you talk to him at all
- about -- discuss with him the assertive map 12
- that he drew?
- 14 A. Well, I mean, I talked with him about
- this product. We discussed the skew of the
- map, the Republican leading nature of it, how 16
- 17 strong it was moving in one direction or the
- other and the responsiveness. I can't recall 18
- details, but when we generate a visual like 19
- this you describe what's going on. 20
- 21 Q. Do you recall printing this particular
- map and discussing it with Mr. Handrick?
- 23 A. I don't know. It may have been
- 24 printed off. I don't recall.
- 25 Q. Do you know how this particular map

- Composite\_Joe\_Base\_Curve.xlsx. Do you see
- 2 that?
- з A. Yes.
- 4 Q. All right. And if you scroll over to
- the right under Author, it's Column H, you'll
- see that you're identified as the author, 6
- 7 correct?
- A. Yes. 8
- Q. And last saved by Adam Foltz, correct? 9
- 10 A. Yes.
- 11 Q. And created on May 28, 2011, right?
- 12 A. Yes.
- Q. All right. So I would like you to
- open that one up and let's have that one open
- next to the Joe Assertive Curve.
- A. I'm going to take a moment and --
- Q. Reorient them?
- 18 A. -- reorient these so that we can draw
- some --19
- 20 Q. Do you know how to make it so you can
- split the screen?
- **22** A. Yeah.
- 23 Q. Okav.
- A. These were created on a Mac. So
- that's why it says Ronald Keith Gaddie CAS

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- compares to the assembly districts that were
- finally adopted in Act 43? 2
- 3 A. No.
- 4 Q. If you go back then to the
- Spreadsheets File Detail Report.
- MR. EARLE: Do you want to keep this 6
- one open? 7
- 8 MR. POLAND: Sorry?
- 9 MR. EARLE: Do you want to keep this
- 10 one open?
- MR. POLAND: Yes, please do keep that 11
- open. Thank you. 12
- 13 Q. (By Mr. Poland) Next is -- I would
- like you to look at Row Number 20. Actually,
- you know what? While we've got that one open, 15
- let's jump all the way down to 32.
- 17 A. From the spreadsheet?
- 18 Q. On the spreadsheet, yeah.
- MR. KEENAN: Which spreadsheet? 19
- MR. POLAND: This is the external --20
- 21 this is the WRK 32586 External HD Responses
- Spreadsheets File Detail Report.
- 23 Q. (By Mr. Poland) And so if we go down
- to Row 32 you'll see there is a file with a
- file path that says Composite Joe --

- build, just to clarify. That will save us a
- question later. I'm sorry, I didn't mean that
- 3 smarmy.
- 4 Q. No, no, no. No offense taken.
- A. You know, I'll say after the many,
- many days we spent doing this before I think we 6
- -- okay. We can actually do it this way and it 7
- 8 will serve our purpose. That was not it, no.
- 9 MR. EARLE: Yeah, if you just pull it
- down there on the screen. 10
- THE WITNESS: We're almost there.
- Counselor. 12
- A. I'm trying to figure out why they're
- not scaling the same way. Okay. This is good
- enough for us to go. Okay, Counselor.
- Q. (By Mr. Poland) Okay. You have both
- 17 of the spreadsheets open, the Joe Base Curve
- and the Joe Assertive Curve? 18
- 19 A. Yes.
- Q. All right. Do you recall ever having
- these two files open next to each other and
- looking at them next to each other?
- A. I don't. I mean, it's possible, but I 23
- don't recall having them open next to each
- 25 other.

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- 1 Q. Okay. What does the Joe -- how does
- the Joe Assertive Curve compare to the Joe Base
- Curve? 3
- 4 A. Okay. Well, if we look at the Joe
- Base Curve, we've got actually a fairly steady
- 6 almost 45 degree line running through the 50/50
- mark in the district. So at district 50 --7
- rather at the 50th district in the rank order 8
- and at the 50% vote, they appear to intersect. 9
- 10 The share of competitive districts actually
- appears to remain in similar balance, although 11
- there were more Democratic competitive 12
- districts on the base map than there are on the 13
- assertive curve. But unlike in the base map, 14
- 15 the number of competitive districts continue
- forward as the partisan balance in the state 16
- moves more heavily Republican. 17
- The only other difference is that 18
- there is a more rapid shift in terms of safe 19
- 20 districts for the Republicans that occurs at
- what appears to be about 53% of the votes 21
- statewide, and it doesn't occur until about 54 22
- or 55% of the vote on the baseline map. So 23
- there is some shift in the skew of the map 24

1 O. Okay. And again, you don't know --

2 these are for assembly districts, correct?

3 A. These are for the assembly districts,

5 Q. And you don't know how the maps that

are portraved in these particular S curves, how

they relate to what eventually was adopted in

A. I don't know if these were implemented

Mr. Handrick where you talked about the

then to the File Detail Report Spreadsheet.

MR. EARLE: Do you want to keep these

MR. POLAND: No, you can close those.

think -- let's see. If you look in Row Number

comparison between the assertive curve and the

11 Q. Did you ever have any discussions with

**15** A. I'm trying to recall if I did or not.

MR. EARLE: Okay.

Again, Doug, it's been four years. 17 Q. I understand. I would like to go back

23 Q. (By Mr. Poland) And I think that the

last one that I wanted to look at on this, I

between the base map and the assertive curve.

- 20, this is the team map curve.xlsx.
- A. Uh-huh.
- 3 Q. And if you scroll over to Author
- you'll see again you were the author.
- 6 Q. And then you will see it was last
- saved by Adam Foltz.
- A. Yes.
- Q. And the date there June 14, 2011, 9
- correct?
- 11 A. Correct.
- 12 Q. Again, that coincides with the time
- that you were in Madison, correct?
- A. That's correct.
- Q. Let's open up that -- well, actually,
- before we do that, do you remember -- well, 16
- strike that. 17
- Do you know whether the name "team map 18
- curve" has any significance? 19
- A. Again, it's a vague recollection, but
- I would assume this would be a final version of
- a map that was agreed to by the mapmakers.
- Q. So let's --23
- A. I don't know. But if I recollect,
- then that would be the case.

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1 O. So let's open that one up.

- MR. EARLE: Where did you find that? 2
- 3 You have good eyes.
- MR. POLAND: Where did you find it? 4
- MR. EARLE: Down about two-thirds. 5
- MR. POLAND: They might be arranged 6
- differently in there. There we go. There it 7
- is. Yeah, team map curve.
- Q. (By Mr. Poland) Okay. Do you have 9
- that up in front of you then? 10
- 11 A. Yes, I do.
- Q. All right. Does this refresh your
- recollection at all about what "team map curve"
- may be referring to?
- A. It doesn't do anything to refresh my
- recollection beyond what I've said previously.
- 17 But given the timing of the map and the nature
- of the process, I would assume this would be a 18
- map that they would have arrived at, yeah. 19
- Q. And this is for the assembly 20
- districts, correct?
- A. Yes, it is. 22
- Q. Can you make a comparison between the 23
- Team Map Curve and then the Joe Base Map Curve
- that we just looked at?

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Act 43?

or not.

open?

base map?

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- 1 A. The Base Map Curve?
- 2 Q. Yes.
- 3 A. Okay. Well, we're going to need to
- pull the Base Map Curve back up. Actually, if
- you'll just go File, Open and reset it. It
- 6 should be up there.
- MR. EARLE: Base Map Curve. I'm 7
- sorry. There you go. Do you want me to make
- 9 it smaller?
- 10 THE WITNESS: If you don't mind.
- There it is. 11
- 12 Q. (By Mr. Poland) And let me know when
- you've got them both on the screen where you
- can view them. 14
- **15** A. All right, Doug. We're ready.
- 16 Q. Okay. How does the Team Map Curve
- compare to the Joe Base Curve? 17
- **18** A. Again, the Team Map Curve again
- preserves a large range of competitive 19
- 20 districts when the map is near 50 -- when the
- state is divided nearly 50/50. It maintains 21
- the existence of competitive districts across 22
- both parties as the partisan balance shifts
- right or left as close to the base map where 24
- the Democratic districts and also the

- Okay. The team map -- again, this is an ocular
- 2 test, an ocular examination. And we've got
- some scaling issues with regard to the size of 3
- the cells, so I'm trying to correct for that. 4
  - The team map is not quite as
- 6 aggressive in creating safe Republican seats as
- the assertive curve map was. One of the things 7
- we take note of -- again, as I eyeball this --8
- is you don't get to having a majority of safe 9
- 10 Republican seats under the map until you get to
- 54% statewide vote. And that has reached a 52% 11
- statewide vote under the assertive map. There 12
- is also a wider band of competitive districts
- at 51% Republican statewide as compared to the 14
- 15 assertive curve.

5

- So the assertive map, the Joe 16
- Assertive Curve Map, is more Republican in 17
- terms of the district, distribution and
- competitiveness than the team map in looking at 19
- 20 these two visuals.
- Q. Okay. And again, you don't know which
- of these ultimately was reflected -- or if
- either of them reflected the final map in Act
- 43 for the assembly districts?
- 25 A. I don't recall. As I indicated, by

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- Republican districts tend to narrow in terms of
- the number of competitive seats available. And
- again, at 53% it appears that there is an 3
- uptick in the shift of safe districts towards
- the Republicans. 5

9

- 6 Q. Is the Team Map Curve a more pro
- Republican map than a pro Democrat map?
- 8 A. Let me look at it for a minute. Okay. At 50% of the expected vote statewide, of the
- 99 assembly districts it appears that 55 of 10
- them are either safely or leaning Republican 11
- with 21 of those seats being competitive 12
- 13 Republican districts. At 53% Republican
- statewide vote of the 99 assembly districts, 46 14
- of them appear to be districts that we would 15
- term safely Republican based upon the estimate.
- 17 So there is a Republican lean in this map, yes.
- **18** Q. And do you know how the -- can you
- compare the team map to the Joe aggressive or 19
- Joe assertive, I should say? 20
- 21 A. I'm going to need to open it back up,
- so bear with me just a moment. Counselor, give
- me just a moment. 23
- 24 Q. Absolutely.
- 25 A. I'm orienting to be able to see.

- this point most of my effort was on the
- majority/minority districts.
- 3 Q. Right.
- A. All my effort was on the
- majority/minority districts at this point.
- Q. Okay. So I would like you now to go
- to the last of the files that we have, the WRK 7
- 8 32586.
- A. Okav. 9
- 10 Q. And let's take a look at the
- Responsive Spreadsheets File Detail Report.
- MR. EARLE: For the external hard 12
- 13 drive?
- MR. POLAND: No, this is for 32586. 14
- MR. EARLE: Okay. 15
- MR. POLAND: And let me know when 16
- 17 you're there.
- MR. EARLE: We're there. 18
- Q. (By Mr. Poland) I would like you to
- look at rows 6 through 13. And do you see
- those have file names that are somewhat similar
- to what we just looked at? 22
- A. Yes. 23
- Q. There's an Adam Assertive Curve, a
- Composite Current Curve, a Joe Assertive Curve

- 1 and a Joe Base Curve, correct?
- 2 A. Yes.
- 3 Q. Do those names hold any significance
- 4 for you?
- 5 A. I assume that Adam is Mr. Foltz and
- 6 that Joe is Mr. Handrick.
- 7 Q. All right. And Mr. Foltz, again, is
- 8 the legislative aide for the assembly in the
- 9 redistricting process, correct?
- 10 A. I believe so, yes.
- 11 Q. If you scroll over to the right, over
- to the author, you'll see that you are the
- author of each of these files that are
- identified in rows 6 through 13, correct?
- **15** A. That's correct.
- 16 Q. And it indicates they were last saved
- by Adam Foltz?
- **18** A. That is correct.
- 19 Q. And that was on May 28, 2011 when you
- were in Madison, correct?
- 21 A. Yes.
- 22 Q. And then let's go down a little bit
- 23 further, down to rows 33 through 36. And again
- you see we have a Team Map Curve?
- 25 A. Yes.

- 1 Q. Let's go ahead and open that one up.
- MR. EARLE: That's xlsm?
- 3 MR. POLAND: Correct. Correct. I've
- 4 got some printouts for this one.
- 5 Q. (By Mr. Poland) By the way, I know
- 6 that there are some file extensions that are
- 7 xlsm and some that are xlsx. Do you know what
- 8 the difference is between those?
- **9** A. I have no idea.
- 10 Q. You know, I've got some printouts of
- 11 these things, too. So we can mark them.
- MR. KEENAN: She said lunch is here.
- MR. POLAND: Oh. it's here? Let's
- 14 break then.
- 15 THE WITNESS: Sure. Okay.
- MR. POLAND: This would be a good
- 17 place to break.
- THE VIDEOGRAPHER: Going off the
- record. The time is 1:19 p.m.
- 20 (Recess.)
- THE VIDEOGRAPHER: We're back on the
- record. The time is now 1:42 p.m.
- 23 (Exhibit No. 39 marked.)
- 24 Q. (By Mr. Poland) Dr. Gaddie, just
- 25 before we broke for lunch I had asked you to

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- 1 Q. And if you scroll over to the right
- 2 you'll see that you're listed as the author.
- 3 And again, they were last saved by Mr. Foltz?
- 4 A. That's correct.
- 5 Q. And that was on June 14, 2011?
- 6 A. Yes.
- 7 Q. And then if you go down to rows 40 and
- 8 41 you'll see Wisconsin Correlates as a file
- 9 name?
- 10 A. Yes.
- 11 Q. And CAS build as the author. And that
- was you as well, correct?
- 13 A. Yes.
- 14 Q. And Mr. Foltz is the one who last
- saved them?
- 16 A. Yes.
- 17 Q. And those were created on April 15,
- 18 2011, right?
- 19 A. That's correct.
- 20 Q. I would like to take you up to a
- 21 different file. I would like to take you up to
- 22 Row 20. And this is a planned comparisons --
- 23 I'm sorry, Planned Comparisons.xlsm. Do you
- 24 see that?
- 25 A. Yes.

- take a look at a spreadsheet that is identified
- 2 on the WRK 32586 Responsive Spreadsheets File
  - 3 Detail Report.
- 4 A. Yes.
- 5 Q. On Line Number 20, the file name is
- 6 Planned Comparison.xlsm. Do you see that?
- 7 MR. EARLE: Oh, you're on the
- spreadsheet. I'm sorry.
- 9 A. Yeah, we're on it.
- 10 Q. (By Mr. Poland) Okay. You're on it.
- 11 And if you scroll over to the right, do you see
- that it was authored by Adam Foltz?
- 13 A. Yes.
- 14 O. And it was authored on --
- 15 MR. EARLE: 5/2.
- 16 Q. (By Mr. Poland) -- 5/2. Yeah, it was
- 17 created on 5/2. There is -- it looks like
- 18 there are a couple of different -- it says
- office created date. It's got 5/2. If you
- scroll back over to the left you'll see it has
- a created and it says central and it says
- 5/9/2011. And I'm just saying this for the
- 23 record.
- 24 A. No, I understand.
- 25 Q. Okay. I'm just trying to orient

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- 1 myself here.
- MR. EARLE: Now I see.
- 3 MR. POLAND: Do you see what I'm
- 4 talking about?
- 5 MR. EARLE: Uh-huh.
- 6 Q. (By Mr. Poland) All right. So I would
- 7 like to ask you some questions about this
- 8 particular spreadsheet. I've actually printed
- 9 some copies. We've printed some copies of this
- one up and maybe that will save us the problem
- of having to pull it up on the screen.
- MR. EARLE: Do you want to correct the
- error on the red writing?
- MR. POLAND: Yes, I will.
- 15 Q. (By Mr. Poland) I'm handing you an 11
- by 17 printout of it. Unfortunately, the rest
- of us are going to have to look at something a
- 18 little bit smaller. Hopefully our eyes are up
- 19 to the challenge.
- So Dr. Gaddie, in front of you we've
- 21 put a printout of the spreadsheet we were just
- 22 discussing. Written in red at the top of the
- Page 1 of Exhibit 39 you'll see it identifies
- 24 the file name, Plan Comparisons.xlsm. Do you
- 25 see that?

- 1 Q. I would like for you to look at the
- 2 very first page of Exhibit 39. And up at the
- 3 top there's a table and it says
- 4 MilwaukeeGaddie\_4\_16\_11\_V1\_B. Do you see that?
- 5 A. Yes
- 6 Q. All right. Does that particular file
- 7 name have any significance for you?
- 8 A. No
- 9 Q. All right. And again, this is a
- spreadsheet that we saw that Adam Foltz had
- 11 created.
- 12 A. Yes.
- 13 Q. And we have assembly districts on the
- 14 left and senate districts on the right,
- 15 correct?
- 16 A. Yes.
- 17 Q. Is there a particular name that you
- would give to a file that appears like this or
- 19 looks like this?
- 20 A. Well, again, I would have to be
- interpreting into it. And again, I'm working
- 22 without memory from Wisconsin. But in
- eyeballing this, I would assume that
- 24 "Milwaukee" means that there's a separate
- breakdown for the districts that are in

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- 1 A. Yes.
- 2 Q. The next line says created --
- 3 handwritten in "created 5/9/11, 5:39 p.m." Do
- 4 you see that?
- 5 A. Yes.
- 6 Q. And that corresponds to Column C on
- 7 the Responsive Spreadsheets File Detail Report
- 8 that we were just going through.
- 9 A. Do you need me to confirm that?
- 10 Q. No, I don't need you to. This is just
- 11 for all of our reference.
- 12 A. Very good.
- 13 Q. And then below that it says
- 14 "accessed." And on the copy that everybody had
- written in red it said 4/27/11. That was our
- nistake. It should actually be 4/27/12. And
- again, that's in the accessed -- that's Column
- D of the spreadsheet. And then just below that
- 19 it says "modified." And we had handwritten in
- 20 4/27/11. Again, that's wrong. That should be
- 4/27/12. So we've corrected that in the blue
- in the top.
- 23 A. Very good.
- 24 Q. I just wanted to make that clear.
- 25 A. Thank you.

- 1 Milwaukee County, although I cannot be certain
- 2 of that.
- 3 "Gaddie," I would assume that they are
- 4 using the measure for partisanship that I had
- 5 developed for them to index and that's what's
- 6 being indicated in the current and new columns
- 7 on percentage. 4/16/11, I don't know. That
- 8 could be a date. That could be April 16, 2011.
- 9 V1 could be Version 1. B could be an update to
- 10 Version 1, so it would be a subsequent update
- of the initial version of the table that was
- 12 created.
- But again, I'm just interpreting from
- the data. I don't know that to be the case.
- 15 Q. When you were working as a consultant
- to or with Mr. Ottman and Mr. Foltz and
- 17 Handrick, did they ever show you any kind of a
- spreadsheet that looked like this?
- 19 A. I may have seen something like this,
- 20 yes.
- 21 Q. Do you specifically recall that?
- 22 A. I don't specifically recall it, but
- you encounter data like this all the time doing
- 24 this work.
- 25 Q. I would like you to look down. There

- are two boxes in the bottom. You'll see one
- that says Current Map and then one says New
- Map. Do you see that?
- 4 A. Yes.
- 5 Q. And so let's look under the box that
- 6 says current map. Do you see it says "Safe GOP
- 7 55% plus," and then it's got "Assembly 27" and
- 8 "Senate 7." Do you see that?
- 9 A. Yes.
- 10 Q. And then just below it says, "Lean GOP
- 11 52.1 to 54.9%. Assembly 13, Senate 8." And
- then below that, "Total GOP seats" and then in
- parentheses it says, "Safe plus lean" and it
- has 40 of 15. Do you see that?
- 15 A. Yes.
- 16 Q. What is that measuring?
- 17 A. Okay. This actually -- this is
- 18 helping me get a recollection. There are a
- variety of ways of categorizing a legislative
- 20 district. There are safe districts. There are
- 21 leaning districts. There are swing districts.
- And again, I'm reaching into the
- 23 recesses of conversation, but I suspect that
- 24 Mr. Foltz and I probably had a conversation
- about how would you characterize these data to

- 1 A. Yes.
- 2 Q. All right. And again, what does the
- 3 "swing" correspond to?
- 4 A. These would be districts where the
- 5 estimate from the regression model put the
- 6 partisan -- the point estimate of the partisan
- 7 vote somewhere between 48 and 52% of the vote
- 8 let's say for the Republican party. Okay? And
- 9 19 corresponds to the number of districts in
- 10 the assembly that fell in that range. Five
- 11 corresponds to the number of districts in the
- senate that fell in that range for the current
- 13 map.
- 14 Q. Okay. Were you asked specifically to
- look at the number of swing districts?
- 16 A. I don't recall. I mean, you talk
- about these things when you talk about
- 18 districts. How can you categorize information
- 19 to present it to the decision makers. There
- was doubtlessly a conversation about this.
- 21 Q. Have you ever heard the term swing
- 22 analysis before?
- 23 A. Yeah.
- 24 Q. All right. Were you asked to perform
- a swing analysis as part of your work in the

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- take them down to a manageable scale for people
- 2 to understand the impact. And one way of doing
- 3 this -- and we've done this with litigation as
- 4 well and in political science scholarship.
- 5 Safe districts were routinely characterized as
- 6 districts that are over 55% for one party or
- 7 the other. Lean districts are the districts
- that are above 50% but below 55%.Because of the potential for -- one of
- 10 the other things we know from political science
- research is districts that fall in a 51, 49,
- 12 52, 48 range are often the most competitive.
- So a breakout like this allows you a shorthand
- 14 for understanding the districts that are safe,
- 15 districts that have the potential to be
- 16 competitive but lean towards one party, and
- then those districts that are truly in play,
- 18 truly competitive districts, those that are in
- the 48 to 52% range in the case of this table.
- 20 So that's what's being told here.
- 21 Q. Okay. Now, just below what we had
- 22 looked at with the safe GOP, lean GOP and total
- GOP, you get into -- just below that it says,
- "Swing 48 to 52%" and then it says, "Assembly
- 25 19. Senate 5." Do you see that?

- 1 2011 redistricting?
- 2 A. The closest you'll see to a swing
- 3 analysis is the curve maps that we just looked
- 4 at. That's representation of how a swing might
- 5 occur, but it's not a formal swing analysis,
- 6 no.
- 7 Q. What would you have to do to undertake
- 8 a formal swing analysis that wasn't represented
- 9 in the S curves that you --
- 10 A. Well, it's --
- **11** O. -- created?
- 12 A. Doug, we just did it there. It took
- us five hours, but I just talked over you. Ask
- the question again, please. I'm sorry.
- 15 Q. I'm sorry. What would you -- to do a
- full swing analysis, what will you have to do
- above and beyond the S curves that you
- **18** generated?
- 19 A. Well, what you would do is -- part of
- 20 what you would do with the swing analysis is
- 21 you would actually have a graphic
- representation of the curve off of the model.
- 23 So at 50% of the votes we expect to see how
- many seats for one party or the other. As we
- 25 increase the skew of the votes state wide for

- 1 one party or the other, how do the number of
- 2 seats that you retain, how do they gain. You
- 3 might model this off of different models. You
- 4 might use reconstituted elections to see if
- 5 there are sensitivities. And then you would
- 6 graphically plot it. And one of the
- 7 comparisons you might make is to compare that
- 8 against a variety of different curves. A
- 9 straight 45 degree curve, an S curve.
- What you're looking -- and, again,
- 11 it's been years since I've messed with
- something like that. But a swing analysis,
- what you're doing is you're looking for --
- 14 you're looking for responsiveness. Okay? And
- 15 you're looking for -- well, you're looking for
- responsiveness and then you're looking for also
- skew outside the range of what you might expect
- 18 given the ordinary bias of a single member
- 19 district system.
- 20 Q. Do your S curves at all provide any
- 21 information on the durability of the districts
- 22 over time?
- 23 A. No.
- 24 Q. So back to Exhibit Number 39.
- 25 A. Yes.

- 1 current map to a new map.
- 2 A. I don't know if it was employed or
- 3 not, but certainly the analysis was available.
- 4 Q. And as reflected on Exhibit 39?
- 5 A. Yes.
- 6 Q. And so when we look at dems under New
- 7 Map, we see that from the Current Map to the
- 8 New Map, the lean dem seats decrease from seven
- 9 to six in the assembly and from three to two in
- 10 the senate. And the safe dem decreased from 33
- to 32 in the assembly and actually go up by one
- in the senate, correct?
- 13 A. Correct.
- 14 Q. And so we see a total dem seats
- decreasing from 40 to 38 in the assembly and
- staying the same in the senate, right?
- 17 A. Yes.
- **18** Q. Would you turn to the second page of
- **19** Exhibit 39, please?
- 20 A. Yes.
- 21 Q. Up at the top we have what appears to
- be a file name or at least a header that says
- 23 Statewide 2 Milwaukee Gaddie and then the same
- **24** \_4\_16\_11\_V1\_B. Do you see that file?
- 25 A. Yes.

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- 1 Q. Then at the bottom we see in the same
- 2 box that we're in, Current Map, we see a lean
- 3 dem, a safe dem and then total dem seats,
- 4 right?
- 5 A. Yes.
- 6 Q. All right. Now, there is a box right
- 7 next to it that says New Map. Do you see that?
- 8 A. Yes.
- **9** Q. And then there are also protections.
- 10 And it looks like in New Map we've got the
- 11 number of safe GOP seats are increasing from 27
- to 34. In the senate from seven to ten. Lean
- GOP they're going up 13 to 18 and the senate is
- 14 staying the same. So the total GOP seats, safe
- plus lean, are increasing from 40 to 52 and 15
- to 18. Do you see that?
- 17 A. Yes.
- 18 Q. All right. Do you have any knowledge
- about whether the -- that kind of analysis was
- 20 employed in creating what became the final map
- 21 for Act 43?
- 22 A. That kind of analysis? What kind of
- 23 analysis?
- 24 Q. I'm sorry. The analysis looking at
- 25 the safe, lean and then total GOP seats from a

- 1 O. And again, does that have any meaning
- 2 to you?
- 3 A. Other than what I might infer that I
- 4 described previously that it's a set of terms
- 5 designed to identify elements and inputs in the
- 6 map and the timing of the map.
- 7 Q. Okay. So if we look at the --
- 8 actually, if you would turn to the third page
- 9 then.
- 10 A. Sure.
- 11 Q. And you see up at the top it says
- 12 Final Map?
- 13 A. Yes.
- **14** Q. Do you have any information as to
- whether this reflects the final map that was
- 16 enacted in Act 43?
- 17 A. No.
- 18 Q. Again, we see the same kind of
- analysis as we did in the previous two pages,
- 20 correct?
- 21 A. Yes.
- 22 Q. All right. If we compare the number
- of seats, the total GOP seats, safe plus lean,
- 24 in what's identified as the Final Map, we see
- 25 it's 52 in the assembly and 17 in the senate,

1 are 15 in the senate, 13 total dem seats in the

- 2 senate with five swing, correct?
- 3 A. Yes.
  - 4 Q. And if you go to New Map, those
  - 5 numbers change as indicated in the box at the
  - 6 bottom, correct?
  - 7 A. Correct.
  - B Q. Any map that you ever saw were you
  - 9 ever asked to do any kind of analysis on a
  - 10 Kessler Map?
  - 11 A. None that I can recall.
  - 12 Q. Let's go ahead and mark this. I've
  - 13 got big ones for everybody. Let's mark this as
  - **14** -- are we on 40 now?
  - 15 THE REPORTER: Yes.
  - 16 (Exhibit No. 40 marked.)
  - 17 Q. And let's mark this one that we can
  - actually read as Exhibit 41.
  - (Exhibit No. 41 marked.)
  - 20 Q. Dr. Gaddie, let's start with Exhibit
  - Number 40. That's the smaller of the two
  - sheets. Do you have that in front of you?
  - 23 A. All I have is Exhibit 41.
  - 24 Q. Oh, I'm sorry. I asked the court
  - 25 reporter to hold on to it.

1 correct?

- 2 A. Yes.
- 3 Q. And then we've got Swing, we've got
- 4 ten. Or New Swing it says. We've got ten in
- 5 the assembly, three in the senate, right? And
- 6 then the total dem seats, strong plus lean,
- we've got 37 in the assembly and 13 in thesenate, correct?
- 9 A. Yes.
- 10 Q. All right. And then I think we must
- 11 have just gotten two copies of the same page
- there in the Final Map.
- **13** A. Yeah.
- 14 Q. And then the last page of this says
- 15 Custom Map. Do you see that?
- 16 A. Yes.
- 17 Q. Does that have any meaning to you at
- **18** all?
- 19 A. Well, I recall -- I mean, I recall
- 20 from the 2002 redistricting the Kessler map
- 21 from it. I'm trying to remember if there was a
- 22 Kessler map presented in the most recent
- litigation or not. I don't recall. But Iwould assume that this represents an
- alternative map presented by a different

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- 1 litigant or a different stakeholder in the
- 2 process.
- 3 Q. Okay. Now, this, at least according
- 4 to the metadata, this is created in 2011,
- 5 correct?
- 6 A. I'm on paper.
- 7 Q. Oh, yes. I'm sorry. We looked at the
- 8 file. We have looked in the file. So we
- **9** looked at the metadata.
- MR. EARLE: Let me go back to it.
- 11 A. Yes.
- 12 Q. (By Mr. Poland) All right. And so if
- we -- the Baldus litigation hadn't actually
- started yet in May of 2011, correct?
- 15 A. Yes. I think that's right, yeah.
- **16** Q. If you look at on the page that has
- 17 Kessler Map at the top, if you look under
- 18 Current Map, the Kessler Map has total GOP
- seats in the assembly at 40 and total dem seats
- in the assembly at 40 as well, correct?
- **21** A. Yes.
- **22** Q. And swing is 19?
- 23 A. Yes.
- 24 Q. And then in the senate, again under
- 25 Current Map, there are -- the total GOP seats

- 1 A. Thank you.
- 2 Q. My apologies. We've handed you two
- 3 documents, one has been marked Exhibit 40 and
- 4 one is 41. I would like you to look at Exhibit
- 5 40 first.
- 6 A. Okav.
- **7** Q. All right. And do you see that
- 8 Exhibit Number 40 was marked as an exhibit in
- 9 your deposition in 2012?
- 10 A. Yes.
- 11 Q. All right. Do you recall being
- questioned about Exhibit 40?
- 13 A. I don't recall, but -- I don't recall,
- 14 but I must have.
- 15 Q. Okay. Now I'm going to ask you to
- look at Exhibit Number 41.
- 17 A. Right.
- 18 Q. And do you see that both Exhibit
- Number 40 and Exhibit Number 41 in the lower
- 20 right-hand corner say -- they've got a Bates
- 21 number, Foltz 001065?
- 22 A. Yes.
- 23 Q. All right. So Exhibit 41 is just a
- 24 much, much more legible copy of Exhibit 40,
- **25** isn't it?

- 1 A. Yes.
- 2 Q. All right. You can set Exhibit 40 to
- 3 the side. We won't try to worry about looking
- 4 at that.
- 5 If you look up at the top of Exhibit
- 6 Number 41.
- 7 A. Yes.
- 8 Q. Do you see that the heading for
- 9 Exhibit Number 41 is the same as the heading at
- the top of Exhibit 39, correct?
- 11 A. Yes.
- 12 Q. So that's the Milwaukee Gaddie 41611
- 13 V1 B, correct?
- 14 A. Yes.
- 15 O. Now, there's some extra data that's
- presented in Exhibit 41 that does not appear in
- that first page of Exhibit 39, correct?
- 18 A. Yes.
- 19 Q. So if you look up at the top you'll
- 20 see 2002, 2004, 2006, 2008, 2010. Do you see
- **21** that?
- 22 A. Yes.
- 23 Q. All right. What do those numbers
- 24 indicate?
- 25 A. Okay. Those are earmarkers at the top

- 1 Q. Is this part of the work that you did
- 2 to help build a partisan score for the assembly
- 3 districts?
- 4 A. In terms of building a partisan score,
- 5 no. In terms of building a partisan history,
- 6 yes. Again, I don't recall specifically doing
- 7 this, but this looks like the kind of thing
- 8 I've done in the past. So I may have assembled
- 9 this. I have had input on it. I certainly
- 10 recognize it.
- 11 Q. The last column in the chart there, in
- the table, it says Cycles GOP. Do you see
- 13 that?
- 14 A. Yes.
- **15** Q. Do you know why cycles -- what does
- 16 that indicate?
- 17 A. Just indicates the number of elections
- out of five that a Republican had prevailed in
- 19 the election.
- 20 Q. Got it. Because there are five
- 21 elections that are represented in the cycle?
- 22 A. Exactly.
- 23 Q. All right. I see. Why would you have
- 24 included that in this table?
- 25 A. Again, we're just attempting to

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- 1 of the column headers.
- 2 O. Uh-huh. Okav.
- 3 A. Shall I continue?
- 4 Q. Please do.
- 5 A. Okay. And what's being indicated here
- 6 is the prevailing party in these districts in
- 7 these given years go with a letter indicating
- 8 the party and then color coded. And then the
- 9 final column is indication of the number of
- 10 election cycles in the previous redistricting
- in the previous decade, whether that district
- went Democrat or Republican -- went Republican.
- 13 Q. Do you know why that particular -- the
- analysis of those years was included in Exhibit
- **15** 41?
- **16** A. No, but I'm pretty sure that I -- this
- 17 looks like something I actually would have
- 18 compiled or would have put together out of
- 19 data. This looks like something I would have
- 20 put together. I don't know if I did or not.
- But one of the things that you do get curious
- about is, is there a trend or a transition
- 23 going on in the district. And this was one way
- 24 of illustrating that. Is there reactivity in
- 25 the existing districts.

- 1 summarize information about the district
- 2 histories.
- 3 Q. Do you recall whether anybody asked
- 4 you to put together this kind of an analysis?
- 5 A. I don't recall.
- 6 O. Do you recall ever discussing this
- 7 kind an of analysis with anyone?
- 8 A. I'm sure that we chatted about this
- 9 among the folks that were -- between Joe and
- 10 Tad and Adam, I'm sure we at least went over
- this or looked at it, but I don't recall any
- in-depth conversations about it.
- 13 Q. From what we saw in Exhibit 39, it
- 14 does appear that that analysis was included in
- some additional work that at least Mr. Foltz
- 16 compiled, correct?
- 17 A. It looks that way, yes.
- **18** Q. Having seen Exhibit Number 41, does
- 19 that refresh your recollection at all with
- 20 respect to any of the other spreadsheets that
- are included on Exhibit 39 or the tabs of that
- 22 spreadsheet?
- MR. EARLE: Here it is.
- 24 A. Not especially, no. I mean, this is
- 25 -

- estimates on all the precincts." Do you see
- 1 Q. (By Mr. Poland) Again, this time
- 2 frame, this 4/16/11, that's within the time
- frame that you were in Madison, correct?
- 4 A. Yes.
- 5 (Exhibit No. 42 marked.)
- 6 Q. Dr. Gaddie the court reporter is
- handing you a document that's been marked as
- Exhibit Number 42.
- 9 A. Yeah.
- 10 Q. A document that I know that you've
- seen before, but please take a minute to look 11
- 12 at it.
- 13 A. Yes.
- 14 Q. Do you recognize Exhibit Number 42?
- 16 Q. Can you identify it for the record,
- please? 17
- 18 A. It appears to be an e-mail from me
- dated April 20 of 2011. 19
- 20 Q. All right. And this is a document
- that was marked at Exhibit 67 in your 2012 21
- deposition, wasn't it? 22
- 23 A. Yes.
- 24 Q. All right. Now, the dates are a
- little bit difficult to follow here. I wasn't

- 2 that?
- з A. Yes.
- 4 Q. All right. Now, do you know why you
- went ahead and ran the regression models for
- 6 those years?
- A. I don't recall why. Again, as I 7
- indicated before, more recent data are more
- instructive than older data in understanding
- the near future and measuring partisanship. So
- working with most recent data first.
- Q. Okay. Now --12
- A. But beyond that, I don't recall. 13
- Q. Sorry. I did it that time. 14
- 15 Your sentence says, "Ran the
- regression models," and there's a plural there. 16
- Do you see that? 17
- A. Yes. 18
- Q. All right. Actually, was there more 19
- 20 than one regression model that you were working
- 21
- 22 A. Well, it would have been the same
- model run on different years, because part of 23
- what you're doing when you generate a model to
- understand the near future is you don't work

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- quite able to make much sense of them. At the
- 2 top of the first page you'll see there's a date
- that says Wednesday, April 20, 2011, at 7:34
- 4 a.m. Do you see that on the right-hand side?
- 5 A. Yes.
- 6 Q. All right. And that's -- that
- corresponds with an e-mail from Mr. Handrick to
- Adam Foltz and Tad Ottman that says "See
- Keith's comments below," correct?
- 10 A. Yes.
- 11 Q. All right. Now, just below that is an
- e-mail from you to Joe Minocqua, who is Joe 12
- 13 Handrick, correct?
- 14 A. Right.
- 15 Q. And that's also April 20, correct?
- 16 A. Yes.
- **17** Q. Now, it says 3:47:20. Is that 3:47
- a.m. or p.m., do you know?
- 19 A. I would assume it would be a.m.
- 20 Q. All right. Now, April 20, you weren't
- still in Madison, were you?
- 22 A. No. It's my wife's birthday.
- 23 Q. In that e-mail, you say, "Hey, Joe, I
- went ahead and ran the regression models for
- 2006, 2008 and 2010 to generate open seat

- with data.
- Okay. Let's suppose we want to create 2
- a model to understand district performance next 3
- year. Okay? We're going to use data up to
- this point in time to do that. But let's 5
- suppose we wanted to understand how a measure 6
- would work four years ago. We would use 7
- 8 information up to that point in time but not in
- that year or afterwards. We can't use the 9
- future to explain the -- to predict the past or 10
- explain the past. So you use data up to 2006
- to model 2006, up to 2008 to model 2008, up to 12
- 13 2010 to model 2010.
- Open seat estimates. Again, you'll 14
- recall when we talked about the point estimates 15
- of an expected vote in a district, because 16
- we've netted out a control for incumbency, it's 17
- an open seat estimate because that's what we're 18
- curious about is how will a district look 19
- absent the presence of an incumbent. 20
- 21 And what I did is -- and again I'm
- recalling from the past -- is generated the 22 open seat estimates from the regression, take 23
- that vote and then correlate it against the 24
- composite that had been developed. And the

- composite would have been -- again I'm digging against what we would expect the open seat vote
- 2 into deep recesses here, Doug. This is
- probably some effort to composite or average 3
- the previous -- the previous statewide votes
- for statewide offices and then to see how well
- 6 they correlate. And we're indicating they're
- correlating at a .93 level. 7
- So if somebody says, why don't you 8
- just look at the Governor's race. Well, this 9
- 10 model has a strong relationship in forecasting
- what this election should have looked like. So 11
- basically what we're doing is we're trying to 12
- generate models up to different points in time 13
- and then estimate their relationship to votes 14
- 15 later on.
- **16** Q. You're e-mailing Mr. Handrick here.
- Is that something that you would expect Mr. 17
- Handrick to understand when you're e-mailing 18
- this to him? 19
- 20 A. Yeah, Joe would understand. I think
- 21 so.
- 22 Q. Okay.
- 23 A. I'm not sure if Joe understands -- I
- don't know how keen Joe is on the regressions,
- but if I tell Joe that we've got a regression

- 2 to look like, there's such a strong
- relationship between the two values. Without 3
- having to go through the purpose of doing all 4
- 5 the stuff with the equation, generating
- 6 estimates, if you want to rely on your proxy as
- your own vehicle or measure, you can do that. 7
- 8 What I'm saying is his proxy had a
- high degree of predicted validity when compared 9
- to a more sophisticated statistical model.
- Q. And where you say -- you've got all
- races in parentheses there. That's the proxy, 12
- 13 the partisanship proxy that Joe is using?
- A. Yeah.
- Q. What is the all races? Is that a --
- A. I'm trying to recall. You would have
- to ask Joe. 17
- Q. Okay. Below that you say, "This seems
- to pretty much wraps (sic) up the partisanship 19
- 20 measure debate."
- Yeah. 21
- 22 Q. What was the debate about?
- 23 A. Do we need the regression equation or
- can we use proxy measures?
- 25 Q. Got it. All right. You were a fan of

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- analysis that has a very high level of
- correlation to a composite he had been 2
- 3 developing for his own purposes, what I'm
- communicating there is if you want to look at
- your composite for your own purposes to
- understand the map, it's a good proxy. 6
- 7 Q. All right.
- 8 A. And then I think I actually used that
- term in here.
- 10 Q. I was about to say, the next paragraph
- down, if you read it, you say, "At this point, 11
- if you asked me, the power of the relationships 12
- 13 indicates that the partisanship proxy you are
- using (all races) is an almost perfect proxy 14
- for the open seat vote and best proxy you'll 15
- come up with."
- 17 A. Yeah.
- 18 Q. And so what did you mean when you used
- -- when you made that statement?
- 20 A. Well, the actual open seat vote would
- be the vote in a district if it were open. You
- know, proxy measures are substitute measures we 22
- use absent an actual measure. So what I'm 23
- saying there is if you have this partisanship
- measure you've developed and I've tested it

- the regression, is that right?
- A. I'm a fan of the regression, yeah. I
- think whenever you can get more leverage, more
- information on a problem, you ought to use it.
- 5 Q. All right. And Mr. Handrick was
- looking for a proxy? 6
- A. I don't remember. You know, we had 7
- 8 talked about how can you measure this. There
- was the measure, again as I indicated before, 9
- that Judge Easterbrook preferred from previous 10
- litigation. We wanted to make every -- in
- fact, Judge Easterbrook had pointedly rejected 12
- 13 a proxy election approach in his May 2002 -- in
- the May 2002 decision. 14
- You know, if you were going to 15
- litigate over this and have to talk about how
- 17 you measured partisanship, best to give the
- judge what he likes rather than what we know he 18
- doesn't. Right? So this is an effort to 19
- comply with the expectation of the court if it 20
- ever got there. That was my argument, was, let's go ahead and do what we're going to end 22
- up having to do anyway if we have to. 23
- Q. Okay. And if you jump down then to
- the next sentence it says, "Have Jim call me if

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- 1 he needs anything."
- 2 A. Yeah.
- 3 Q. Is that Mr. Troupis?
- 4 A. It is.
- 5 Q. All right. And then you say,
- "Otherwise, I'll be tweaking the polarization
- analysis." Do you see that?
- 8 A. Yes.
- **9** Q. What was the tweaking that you were
- going to be doing of the polarization analysis?
- 11 A. Well, tweaking in this sense just
- 12 means I'm going to be trying to get a handle on
- the racial polarization analysis for the Black 13
- and the Latino districts in Milwaukee. 14
- 15 You'll recall from the previous
- litigation, getting a handle on those Hispanic 16
- 17 districts was very difficult because we
- couldn't -- I was having a hard time estimating 18
- a stable turnout model to get a sense of what 19
- 20 would constitute a performing Hispanic
- district. So that's what I was messing with 21
- 22 there, was trying to get a handle on the -- the
- measure of polarized voting in Milwaukee
- County.
- 25 Q. Okay. Kind of jumping at this point

- information about what he might have meant or
- you might have meant when you said "all races"
- on the first page? 3
- A. I can't say for sure, Doug. I mean,
- it's -- let me read this again.
- 6 Doug, I just can't recall. I don't
- 7 know.
- O. Okay. Does it appear that Mr.
- Handrick's e-mail to you on April 19 is really 9
- addressing this issue of trying to create a
- proxy as opposed to having to rely on the
- regressions? 12
- 13 A. It could be. That's entirely
- possible. 14
- 15 Q. All right. The last thing I want to
- ask you about this document is, the e-mail
- directly below that is from you to Joe on April 17
- 20. And you say, "I am close to having a
- partisan baselining for you." Do you see that? 19
- 20 A. Yeah.
- Q. Do you remember specifically at that
- time working on a partisan baselining for Mr.
- Handrick?
- A. I would assume. I'm talking about
- trying to make sure the regression equations

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- from partisanship analysis over to the
- 2 polarization analysis, or at least immediately?
- 3 A. Yeah.
- 4 Q. And just below that e-mail, and it
- looks like this predates your e-mail to Mr.
- Gaddie, but -- or Mr. Handrick, Mr. Handrick 6
- sent you an e-mail on April 19 where he said --7

the subject is Milwaukee County elections and

- he says, "We looked at the different combos 9
- today." 10

8

- 11 A. Yeah.
- 12 Q. And then if you go back to the second
- page it says, "The 2006 and 2010 races combined 13
- too much to the GOP." 14
- And then the next paragraph down he 15
- says, "I had Tad do a composite with the 2006 16
- and 2010 state races and all the federal races 17
- 18 from '04 to 2010. In other words, all
- statewide races from '04 to 2010." 19
- 20 A. Yes.
- 21 O. "This seems to work well both in
- absolute terms as well as seats in relation to
- each other." Do you see that? 23
- 24 A. Yes.
- 25 Q. Does that give you any more

- work, so --
- 2 Q. All right. And what made me curious
- is you said "having a partisan baselining for
- you." Was there something specific that you
- were getting at there?
- A. Just any measure that we could use to
- compare districts and compare performance
- across. Yeah, just any measure of partisan
- tendency for districts, a partisan baseline. 9
- Q. We can set that one to the side. I 10
- wanted to go back and ask you questions about a
- couple of the spreadsheets that were on your 12
- 13 drive that you produced to us last week. So
- why don't we pull that one up? 14
- This is Exhibit Number 31, just for 15
- the record. 16
- 17 A. All right. Counsel, I think we're
- ready. 18
- Q. Great. This is a file we looked at
- when we initially pulled up your flash drive. 20
- I would like to take a look at
- Wisconsin 1.xlsx. 22
- A. Yes. All right, Counsel, I'm ready. 23
- 24 Q. Are you able to see the metadata on
- that particular document?

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2 where would I find that?

3 MR. EARLE: Under View, I think.

1 A. No. Hang on. Let's see if we can --

- 4 MR. POLAND: Well, actually, if you go
- 5 under Edit you can find Properties.
- 6 MR. EARLE: Wait a second. Do you
- 7 know how we can see that?
- 8 THE WITNESS: That's right. Go back
- 9 to the --
- MR. EARLE: I'll just shrink this.
- 11 THE WITNESS: Here we go. Yes.
- 12 Q. (By Mr. Poland) I'm sorry, its File
- 13 Properties. I apologize. It's the file
- 14 pull-down menu. Properties is the last one.
- 15 A. Okay.
- 16 Q. And do you see that it was created
- 17 Sunday February -- I'm sorry. It was modified
- 18 Thursday, April 14, 2011?
- 19 A. Yeah, I see that.
- 20 O. Okay. It looks like the created
- metadata probably got a little bit messed up.
- 22 So April 14 of 2011.
- And can you see how far out the voting
- 24 data or how recent the voting data is that's
- used to create this particular spreadsheet,

- 1 Q. So this seems to be a day -- make sure
- 2 I've got this right. A day after the Wisconsin
- 3 1 xlsx, correct?
- 4 A. Yes.
- **5** Q. All right. Is the election data that
- 6 is -- that appears in this particular
- 7 spreadsheet, the more recent one, the Wisconsin
- 8 election data.xlsx, different than in the
- 9 Wisconsin 1 xlsx?
- 10 A. I don't know, Doug. These are two
- 11 huge databases. They've got 6,000 wards in
- 12 them and several hundred variables.
- 13 Q. Okay.
- **14** A. I don't know if they're different or
- 15 not
- **16** Q. If you go over -- if you scroll over
- 17 to the right of the spreadsheets, does that
- 18 tell you whether you've got more elections that
- are being analyzed or included in these
- 20 spreadsheets?
- 21 A. In which file?
- 22 Q. In the second of the two, in the
- 23 Wisconsin election data.xlsx.
- 24 A. There are more columns in the second
- 25 database. So I don't know if this is more

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- this Wisconsin\_1.xlsx?
- **2** A. Can I take a moment to review?
- 3 Q. Yes.
- 4 A. There are electoral data from 2002 to
- 5 2010 in this database.
- 6 Q. Okay. And then take a look at the
- 7 spreadsheet that is Wisconsin Election
- 8 Data.xlsx.
- 9 MR. EARLE: Leave this one open?
- MR. POLAND: Yeah, leave it open.
- 11 Q. (By Mr. Poland) So it's
- 12 Wisconsin\_Election Data. It's just a few down,
- at least in my -- on my directory.
- 14 A. Right there.
- MR. EARLE: Are you going to cover the
- 16 metadata? You might want to do that before we
- 17 click it.
- MR. POLAND: Oh, before you open it?
- 19 Oh, yeah. Okay.
- MR. EARLE: Yeah.
- 21 Q. (By Mr. Poland) Can you tell me when
- 22 this particular spreadsheet was created?
- 23 A. Well, the create date on it says
- 24 February 21, 2016 also, but the modify is April
- 25 15, 2011.

- 1 elections or just computations off of data that
- 2 were already there. But there is a lot more
- 3 data in the second file.
- **4** Q. Okay. I've got one other that I
- 5 wanted to ask you about.
- 6 A. Yes.
- 7 Q. And that's Wisconsin election data rev
- 8 1 xlsx.
- 9 A. Okay.
- 10 Q. And so that's going to be just above
- 11 it
- 12 A. There we go.
- 13 Q. And I see we have to change the
- 14 videotape. Why don't we do that while you're
- 15 opening that?
- 16 A. That's fine.
- 17 THE VIDEOGRAPHER: Going off the
- record. The time is 2:26 p.m. End of Disc 3.
- 19 (Recess.)
- THE VIDEOGRAPHER: We are back on the
- record. The time is 2:29 p.m.
- 22 Q. (By Mr. Poland) Dr. Gaddie, do you
- have Wisconsin election data rev 1 spreadsheet
- up in the computer in front of you now?
- 25 A. Yes.

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- 1 Q. I would like you to scroll over pretty
- 2 far over to the right here in the end of the
- 3 columns. You'll see four columns. There's a
- 4 PC, PD, PE and PF columns.
- 5 A. Yes.
- 6 Q. Do you see that?
- 7 A. Yes.
- 8 O. And you see the headings of those
- 9 columns respective are 2010 statewide, 2010
- plus '06 statewide, 2010 plus '06 plus '02
- statewide, and then all fed '04-10. Do you see
- 12 those?
- 13 A. Yes.
- 14 Q. What do those columns represent?
- **15** A. These are different efforts to index
- 16 the voting district based upon statewide
- 17 elections. The first one is a composite just
- built upon -- the PC is a composite built just
- upon the 2010 statewides.
- PD is a composite built upon the 2010
- and '06 statewides. So these are state
- 22 constitutional offices. PE is based upon the
- 23 '02, '06 and '10 statewides. And Column PF, I
- 24 don't know if that is all of the statewides
- plus all the federal statewides or if it is

- 1 A. T-o-t-t-m-a-n. So that would be Mr.
- 2 Ottman.
- 3 Q. Mr. Ottman?
- 4 A. Yeah.
- 5 Q. Okay. Now, the four columns that we
- 6 had just looked at --
- 7 A. Yes.
- 8 Q. -- those PC through PF, those did not
- 9 appear on the previous two spreadsheets we had
- 10 looked at, correct, the Wisconsin 1 xlsx and
- 11 Wisconsin election data.xlsx?
- 12 A. Yes.
- **13** Q. They did not?
- 14 A. They did not, yes. I'm agreeing with
- 15 your statement, yes.
- 16 Q. Do you know why those were added? Why
- those four columns were added to this
- 18 particular spreadsheet?
- **19** A. No.
- 20 Q. Did somebody ask that they be added to
- this spreadsheet?
- 22 A. I don't know.
- 23 Q. Do you know whether you added them?
- 24 A. I don't recall. I don't think I did.
- **25** Q. Is this -- do you know whether this

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- 1 just all the federal offices. It's one or the
- 2 other. I don't know.
- 3 Q. Okay. I don't think -- I think I
- 4 forgot to ask you about the metadata on this
- 5 one. Do you have -- I won't ask you the
- 6 created date, but the modified date, do you
- 7 have a date on there?
- 8 A. Let's get to the proper forum. Just
- 9 give us a moment.
- MR. EARLE: I thought I had one over
- 11 here. I'll just shrink it.
- 12 THE WITNESS: Yeah.
- 13 A. Okay. We've got a modified on it of
- 14 April 15 at 3:47. The create date is February
- 15 of this year.
- 16 Q. (By Mr. Poland) All right. If you
- actually go to the statistics tab. Do you see
- 18 that there? And click on that.
- Oh, you can't do that?
- 20 A. Can I just come over and look on
- 21 yours?
- 22 Q. Oh, yeah, of course. Here, I can just
- 23 slide it over.
- 24 Statistics, do you see who indicates
- 25 it was last saved by?

- particular spreadsheet, Wisconsin election data
- 2 rev 1, is one that you used to build your
- **3** regression model?
- 4 A. I had to have used -- I don't know if
- 5 I used this exact spreadsheet. I had to use a
- 6 spreadsheet like this to get at the data to do
- 7 what I did. And I'll tell you there is -- the
- 8 previous iteration of the spreadsheet has my
- 9 fingerprints on it. And it goes to -- I'll
- 10 just say it goes to columns OZPA and PB. These
- are factor analysis computations which were
- 12 likely generated off of previous election data
- to ascertain if there was some kind of latent
- structure existing in the partisanship data
- that we could build an index out of. It didn't
- reveal anything meaningful, so I never used it.
- 17 Q. Okay.
- 18 A. But that's what those are. So the --
- 19 you know, there is original data in here that I
- 20 have computed that my fingerprints were clearly
- on, and it's those three columns.
- 22 Q. Okay.
- 23 A. But I don't recall. The main reason I
- 24 can say that I didn't add these four columns
- are these are not the types of devices I would

- 1 Q. I would like you to look at the
- 2 metadata on the file on the computer.
- 3 spreadsheet that you produced to us -з A. Yes.
- 4 A. Uh-huh.
- 5 Q. -- do you know why you would have had
- 6 in your possession the spreadsheet that Mr.
- 7 Ottman might have saved?

1 have used for a column header.

2 Q. All right. Because this was on a

- 8 A. In an effort -- again, if you look
- back at the subsequent e-mail from five days
- after this, there's this effort to test the
- indices to the aggression equation against
- these types of indices. So that would be why I 12
- would have it in my possession.
- **14** Q. Got it.
- 15 A. Is that these data, while I did not
- generate them, I would have used these data as
- part of that exercise.
- 18 Q. Okay. Do you have any recollection of
- 19 receiving a spreadsheet like this from Mr.
- 20 Ottman?
- 21 A. I mean, I was in Madison. I probably
- 22 did, yeah.
- 23 Q. Could have been Mr. Handrick or Mr.
- 24 Foltz?
- 25 A. Yes.

- 4 Q. Can you tell me when that one was

- created?
- 6 A. July 14, 2011, 1:32 p.m.
- Q. Okay. And are you able to click on
- the statistics button there or can you not do
- 9
- 10 MR. EARLE: No, it will not do that.
- MR. POLAND: It will not do that. 11
- Okay. 12
- 13 Q. (By Mr. Poland) Then I will just ask
- you, can you see who created it?
- **15** A. Created? There's a last saved by.
- 16 Q. Or last saved by?
- 17 A. It says Tad.
- 18 Q. Okay. That would be Mr. Ottman?
- 19 A. I would assume, yes.
- 20 Q. Now, again, if you look at the
- spreadsheet on the computer you'll see down at
- the bottom there are three separate tabs. Do
- you see those?
- 24 A. Uh-huh.
- 25 Q. And one says Joe Aggressive, correct?

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- MR. POLAND: Let me take two minutes 1
- here. 2
- 3 THE VIDEOGRAPHER: Going off the
- record. The time is 2:35 p.m.
- 5 (Recess.)
- THE VIDEOGRAPHER: We are back on the 6
- record. The time is 2:45 p.m.
- 8 Q. (By Mr. Poland) Dr. Gaddie, the court
- reporter has handed you a copy of a document
- 10 that's been marked as Exhibit 43.
- (Exhibit No. 43 marked.) 11
- 12 Q. Do you have that in front of you?
- 13 A. Yes, I do.
- 14 Q. And do you see that's a three-page
- document? 15
- 16 A. Yes.
- 17 Q. We just printed that from a
- spreadsheet, and we've got a copy of the
- spreadsheet in electronic format pulled up on
- the computer in front of you. Do you see that? 20
- 21 A. Yes.
- 22 Q. All right. So for the record, this is
- a file that has the name Plan Comparisons and
- 24 it's in xlsm spreadsheet. Do you see that?
- 25 A. Yes.

- 1 A. Yes.
- 2 Q. One says Joe Aggressive 2, correct?
- з A. Yes.
- 4 Q. And one says Team Map 6/15/11. Do you
- see that?
- 6 A. Yes.
- 7 Q. June 15, 2011 is a time when you were
- in Madison, correct?
- A. I believe so, yes.
- 10 Q. Do you recall ever seeing a map or
- talking with Mr. Handrick about a map called
- Joe Aggressive? 12
- 13 A. I can recall talking about it. I can
- recall the map name. I don't recall details of
- the conversation, but I do recall a map called 15
- Joe Aggressive, yes.
- Q. And that's to be distinguished from
- the Joe Assertive that we'd seen earlier, 18
- correct?
- 20 A. I would assume, yes.
- 21 Q. And do you know -- this is pretty late
- stage in the process of the legislature
- adopting a map, correct? 23
- 24 A. I guess, yes. I don't recall.
- 25 Q. You don't recall when Act 43 was

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- 1 passed?
- 2 A. No.
- 3 Q. Let's take a look first at the tab
- 4 that says Joe Aggressive.
- 5 A. Okay.
- **6** Q. As opposed to the Joe Aggressive 2.
- 7 MR. KEENAN: Doug, where can I find an
- 8 electronic version of this?
- 9 MR. POLAND: Yeah, we're going to get
- into the printed stuff right now. I can give
- 11 you an electronic one.
- MR. KEENAN: Where did it come from, I
- 13 guess?
- MR. POLAND: This is one of the files
- that we got from Lanterman, although this is
- 16 not --
- MR. KEENAN: It was not in the --
- MR. POLAND: It was not on that one,
- 19 right, not on that flash drive. But I can
- 20 provide those all to you, Brian.
- MR. KEENAN: Okay. Thank you.
- MR. POLAND: Absolutely.
- MR. EARLE: It's an equivalent
- 24 spreadsheet for Handrick and documents from
- 25 Handrick's computer.

- 1 between the on-screen sheet and then what we
- 2 have on the paper so I can ask you the
- 3 questions based on the paper. All right?
- 4 A. Check.
- 5 Q. So the Joe Aggressive appears to be
- 6 the first page of the printout in Exhibit 43,
- 7 correct?
- 8 A. Yes.
- 9 Q. All right.
- 10 A. That appears to be the case, yes.
- 11 Q. And then if you click the next tab on
- the spreadsheet that's on your computer, you'll
- see Joe Aggressive 2.
- 14 A. Yes.
- 15 Q. Does that appear to correspond with
- the second page of the printout on Exhibit 43?
- 17 A. Yes, It does.
- 18 Q. And then if you go to the third tab
- that says Team Map 6/15/1, that appears to
- 20 correspond to the third page of Exhibit 43,
- 21 correct?
- 22 A. Yes.
- 23 Q. All right. Terrific. Let's move to
- the paper then so we can all follow along.
- In format Exhibit 43 is very similar

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- MR. POLAND: Correct. Well, it was
- 2 off one of those computers. There were three
- 3 of them. Yeah, I'll give you an electronic
- 4 copy. We can do it after we're done with the
- 5 deposition.
- 6 Q. (By Mr. Poland) And I want to just
- 7 orient us on the spreadsheet that's on the
- 8 computer and then we can jump to the paper so
- 9 everyone can see what we've got.
- 10 Under the Joe Aggressive tab, up at
- 11 the top there's a header that says Team Map.
- **12** Do you see that?
- 13 A. Yes.
- 14 Q. And if you look at the Current New and
- Delta for the assembly it's 51.5%, New 51.2%,
- Delta 0.07%. Do you see that?
- 17 A. Slow down.
- 18 Q. Sure.
- 19 A. Run that by me again.
- 20 Q. Yeah.
- **21** A. Are we at the top of the document?
- 22 Q. Correct.
- 23 A. Okay. I'm there. I'm there now.
- Yes, I'm good. I'm with you. Yes.
- 25 Q. I just want to try to orient us

- 1 to the printout that we saw previously,
- 2 correct? I'm trying to pull up the exhibit.
- 3 With Exhibit 39, correct?
- **4** A. Let me get to Exhibit 39.
- 5 Q. Sure.
- 6 A. Yes. Similar. Not the same, but
- 7 similar, yes.
- 8 Q. And when you say that it's not the
- 9 same, why do you say that it's not the same?
- 10 A. Well, it's not identical.
- 11 Q. Well, they certainly are not
- 12 identical. But in format they are --
- 13 A. Variations on the theme.
- 14 Q. Variations on the theme. That's fine.
- 15 I'll go with that. All right. Now, if you --
- 16 well, strike that.
- You don't know, do you, which of, if
- any of these three maps, are ones that were
- actually enacted by the Wisconsin legislature?
- 20 A. No.
- 21 Q. You recalled you testified before that
- you do remember Joe Aggressive being the name
- of a map that had been raised?
- 24 A. Yes.
- 25 Q. All right. What was a discussion that

- 1 you had with Mr. Handrick about that?
- 2 A. I don't remember. I mean --3 Q. And by Aggressive, was that an
  - Aggressive Republican representation in the
- legislature?
- 6 A. I think that's a fair way of
- characterizing it, yes.
- 8 O. All right. Was it in particular in
- the senate or the assembly or was it without
- regard to which of the two houses?
- 11 A. I don't know.
- 12 Q. Do you remember having any discussions
- with anyone other than Mr. Handrick about the
- maps that were called Aggressive maps? 14
- 15 A. Specific conversations, no. If we
- were discussing these maps we would have been 16
- 17 at Michael Best in the mapping room. It would
- have been no more than myself and Adam and Tad. 18
- I mean, myself, Joe, Adam and Tad at most. So 19
- 20 the discussion wouldn't have gone beyond those
- individuals. 21
- 22 Q. And so we did see from the metadata
- that -- or at least from one of the tabs said
- Team Map 6/15/11, it does seem like this is 24
- coming very late in the process, correct?

- computer open and we'll go back to a few
- documents that we've looked at before.
- 3 O. (By Mr. Keenan) Most of my questions
- are going to follow up on things that Mr.
- Poland has already been through.
- 6 I believe you just recently testified
- that -- we were looking at a spreadsheet and it 7
- had a column All Fed 04 10. Do you recall
- that? 9
- 10 A. Yes.
- Q. And you said that was not a heading of
- data that you would have calculated?
- A. Well, it's something I would have
- calculated, but it's not a header name that I
- would have used.
- 16 Q. Okay.
- 17 A. It just doesn't strike me as -- it
- doesn't look like the style of header that I
- would have created. 19
- 20 Q. Okay. So do you know if the numbers
- that were listed in that column heading were
- generated from your regression model?
- A. Those numbers, if I'm recollecting
- correctly, would not have resulted from the
- regression analysis. It would have been

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- 1 A. Yes.
- 2 Q. And so this indicates that they're
- 3 still looking at the partisanship makeup -- the
- partisan makeup of the maps, you know, as of
- the middle of June of 2011?
- 6 A. Appears so, ves.
- 7 Q. And they're using your regression
- analysis to do it, correct?
- A. Again, I can't say definitively these
- are the regression numbers, but it looks like 10
- it would be yeah. I would assume that the 11
- regression analysis is involved, yeah. 12
- 13 MR. POLAND: Any more? I think that's
- going to do it for us. 14
- THE WITNESS: Okay. 15
- **EXAMINATION** 16
- 17 BY MR. KEENAN:
- 18 Q. Thank you for being here, Professor
- Gaddie. As I said before, I'm Brian Keenan 19
- representing the defendants. I'll just ask a 20
- 21 few questions of you, too.
- A. Okay. 22
- MR. EARLE: Do you want the computer 23
- open? 24
- 25 MR. KEENAN: Yes, please keep the

- reconstituted election data from the actual
- elections. So from the actual federal
- elections. So it's what we call a
- reconstituted election analysis.
- Q. And just to be clear, it was not your
- regression model? 6
- A. Right. 7
- Q. Do you know if that column was
- equivalent to the partisan proxy that Mr.
- Ottman and Mr. Handrick had developed?
- A. I don't recall.
- Q. We were just looking at a couple of 12
- 13 documents. One is Exhibit 43 which you could
- pull out and also exhibit -- was it 39, I
- think? 15
- A. Yes. 16
- 17 Q. These spreadsheets that have the
- columns and they look similar. Looking at 18
- Exhibit 39 and Exhibit 43, for the column --19
- the assembly seats column and then looking at 20
- the column that's New, the new percentages. Do
- you see that? 22
- A. Yes. Yes. 23
- Q. Do you know whether the percentages
- that are listed in those columns are a result

1 Q. Okay. Why didn't you just rely on the

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- most recent year?
- A. Because if you rely on the most recent
  - year, it's possible it may be an outlier. For
  - example, we had just come out of the landslide
    - 6 2010 election. And if you were to baseline --

    - if you were to baseline expectations and 7
    - competition based on Republican performance in 8
    - Wisconsin in 2010 you probably would have 9
    - 10 gotten a more Republican skew than would
    - normally exist in the state. I mean, this is 11
    - the state that Scott Walker won, but Barack 12
    - Obama also won twice. So relying only on 2010
    - wouldn't necessarily give you the best measure 14
    - 15 of partisanship.
    - You know, in fact, this is the problem 16
    - with Wisconsin constantly, is that the mid term 17
    - elections are often a little hinky. 2002 was
    - not exactly normal either. So we don't want to 19
    - 20 rely on a single election cycle to baseline
    - what's going to happen in a district. 21
    - Q. So in calculating a partisan baseline 22
    - you would need to look at elections in a 23
    - variety of different electoral conditions?
    - 25 A. Yes.

- 1 of your regression model?
- 2 A. I don't know for certain, no.
- 3 Q. And do you know whether those are a
- 4 result of the partisan proxy model that was
- developed by Joe Handrick and Tad Ottman?
- 6 A. It's been four years. I don't know
- for certain. 7
- O. You just don't know one way or the
- other? 9
- 10 A. No.
- 11 Q. Okay. In your regression model --
- we'll go back over this a little bit and 12
- correct me if I'm wrong. What was the
- dependent variable for your regression model? 14
- 15 A. The dependent variable would have been
- the vote share at the ward level for assembly 16
- or senate respectively, depending upon the map 17
- being analyzed. 18
- 19 Q. And you say "vote share." Were you
- 20 calculating a percentage of the vote?
- **21** A. Yes.
- 22 Q. And was that a percentage of the two
- party or the total vote?
- **24** A. Should have been the two-party vote.
- 25 Q. So with the two-party vote, as I
- Page 227
  - 1 O. At the time when you were serving as a
    - consultant to the legislature in drawing the
    - 3 maps, had you ever heard of a concept called
    - the efficiency gap? 4
    - (Cell phone interruption.) 5
    - THE WITNESS: That's my phone. 6
    - (Discussion off the record.) 7
    - Q. (By Mr. Keenan) Now we've had our
    - interruption from the computer Hal --9
    - A. Counsel, what was the question? 10
    - Q. During your time serving as a
    - consultant to the legislature in drawing the 12
    - 13 maps, had you heard of a concept called the
    - efficiency gap?
    - A. I mean, I'm aware what the efficiency
    - gap is, but it's not something we were actually
    - 17 discussing. I'm aware of the term, yeah.
    - Q. Were you aware of it at the time you 18
    - were doing the redistricting consultation?
    - A. It's sort of funny. The debate over 20

    - efficiency gap really arises subsequent to this
    - re-map and redistricting cycle. But I mean, 22
    - you know, it's a concept that we're all aware 23
    - of, this notion that distortions are created
    - through redistricting and they create

- understand it, if you know, for example, if the
- Republican two-party vote is 45% and the 2
- 3 Democratic two-party vote is 55% and that they
- both have to add up to 100?
- 5 A. Correct.

10

- 6 Q. Okay. What were the independent
- variables that went into your model?
- 8 A. As I recall -- and again, it's been
- four years -- there should have been a control 9
- Republican. Okay? There should have been a 11

for the incumbency in the district, Democrat or

- control for a variety of statewide elections as 12
- 13 inputs, previous gubernatorial races, secretary
- of state and so on and so forth. And the
- 14 dependent variable is regressed onto all of 15
- those variables in order to create an equation
- 17 to estimate partisanship in the district.
- 18 Q. So you looked at a variety of
- different statewide elections as independent 19
- variables? 20
- 21 A. Yes.
- 22 Q. And you also looked at a variety of
- statewide elections in different years as
- independent variables?
- 25 A. Yes.

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- 1 disparities in the translations of seats or
- votes. And that one hallmark of a partisan
- gerrymander might be the introduction of
- 4 certain inefficiencies that end up in vote
- 5 wastage for one party or the other.
- 6 Q. When you were serving as a consultant
- 7 to the legislature did you calculate an
- 8 unexpected efficiency gap for the assembly
- 9 districts that were to be enacted?
- 10 A. No.
- 11 Q. When you were doing your regression
- model to predict the assembly vote share, did
- you assume that there would be equal turnout
- 14 across all the districts in the Wisconsin
- 15 assembly?
- 16 A. Because we're working with vote
- 17 percentages within districts as a dependent
- variable rather than ballots cast, what we're
- doing is we're not assuming equal turnout
- 20 across constituencies.
- 21 Q. If you could, open up -- go back to
- 22 the computer here. And this is going to be on
- 23 the -- what is my purple hard drive, the
- 24 legislature spreadsheets from Mr. Lanterman,
- which is exhibit -- which exhibit is that?

- 1 MR. EARLE: Yes.
- 2 Q. (By Mr. Keenan) And I just want to go
- 3 over this document and understand what's in it.
- 4 A. Yeah.
- 5 O. First, are the numbers that are
- 6 generated that are listed in this spreadsheet,
- 7 are they generated from your regression model?
- 8 A. I believe they are.
- 9 Q. Okay.
- 10 A. Again, it's been awhile.
- 11 Q. Sure. Can you explain on all of these
- curve spreadsheets at what percentage vote
- share the colors codes changes?
- 14 A. Yes. Again, the blues are Democratic
- 15 majority constituencies. The reds are
- 16 Republican majority. The breakpoint between
- the dark blue and the light blue is at 45%.
- 18 The break between the light blue and the orange
- is at 50. The breakpoint between the orange
- and the red is at 55.
- 21 Q. Okay. And I believe you testified
- 22 previously that anything above 55 is considered
- a safe seat for that party?
- 24 A. Yes.
- 25 Q. And I guess on this -- on these

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- MR. POLAND: 37, I think. Let's
- 2 double check and make sure.
- 3 Q. (By Mr. Keenan) And we can go into the
- 4 folder that is --
- 5 MR. EARLE: Give me a second here.
- 6 MR. POLAND: Yeah, 37.
- 7 MR. EARLE: But this one is not
- 8 marked, Doug?
- 9 MR. POLAND: Huh?
- MR. EARLE: This one is not marked?
- MR. POLAND: No, it's not marked.
- MR. EARLE: I'll give it back to you.
- Which folder?
- 14 MR. KEENAN: WRK 32586.
- MR. EARLE: Okay.
- MR. KEENAN: And then we can go into
- 17 the subfolder Responsive Spreadsheets.
- MR. POLAND: File Detail Report,
- 19 Brian?
- MR. KEENAN: No, just the subfolder
- and then we'll go into some of the individual
- 22 spreadsheets.
- MR. POLAND: Okay.
- MR. KEENAN: And if we could open up
- the one titled Composite Current Curve.

- 1 spreadsheets it's expressed in terms of
- 2 Republican two-party vote share?
- 3 A. Yes, that's correct.
- 4 Q. So a number of 45% is actually a 55%
- 5 Democratic seat?
- 6 A. Yes.
- 7 Q. And so that would be a safe Democratic
- 8 seat?
- 9 A. Right.
- 10 Q. There's some numbers across the top.
- 11 I guess we'll be able to start on Column A and
- just could you -- what is the title in Column A
- supposed to represent?
- 14 A. If I could make a suggestion that will
- 15 expedite this.
- 16 O. Sure.
- 17 A. If we start at Column M --
- **18** Q. Okay. We can do that.
- 19 A. -- that says index\_50.
- 20 Q. Sure.
- 21 A. This is assuming that the estimated
- value of partisanship is set with a statewide
- vote between the Republicans and Democrats at
- 24 50%, a 50/50 split. Okay? What is the
- performance of each district assuming a 50/50

- 1 split statewide of the ballot. Okay? And so
- 2 how would each district perform accordingly.
- If we go over to index\_40, we're
- 4 assuming a 40% Republican and 60% Democratic
- 5 split. And we increase at one percentage
- 6 points gradients of Republican performance from
- 7 column to column. So what we're seeing is how
- 8 does the Republican strength shift in these
- 9 districts as we move further to the right.
- 10 Q. As we move each column, would that be
- referred to as a 1% uniform swing?
- 12 A. A one point swing, yes.
- 13 Q. This is titled Composite Current
- 14 Curve.
- 15 A. Uh-huh.
- 16 Q. Do you know what that refers to?
- 17 A. This Composite Current Curve, given
- that it's titled composite, this could be
- 19 referring to a vote index composite rather than
- 20 a regression analysis.
- 21 Q. Do you know what "current" refers to?
- 22 A. Current I would assume applies to the
- existing map, the maps as constituted in the
- 24 State of Wisconsin before the '12 re-map.
- 25 Q. So that would have been the map that

- 1 And again, part of the correspondence and his
- 2 previous testimony, there was an exceedingly
- 3 strong relationship between the composite and
- 4 the point estimates for open seat competition
- 5 in the districts.
- 6 Q. The one generated by your regression
- 7 model?
- 8 A. Yeah. Yeah.
- 9 Q. And then, as I take it, the Column A
- 10 has numbers in it that refers to a particular
- 11 assembly district?
- 12 A. Yes.
- **13** Q. Okay.
- 14 A. Yeah, those are the assembly district
- numbers, and they've been ranked from least to
- most Republican, from top to bottom.
- 17 Q. And we went over these headings in
- 18 this particular document, but when we looked at
- 19 some of these others, would the same reasoning
- apply to the headings and the numbers that are
- in those other curve spreadsheets?
- 22 A. Yeah, there was a root curve
- 23 spreadsheet that was created in the other. And
- 24 the subsequent simply descend from it, yes.
- 25 Q. If you could open up in that same

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- 1 was in place from 2002 to 2010?
- 2 A. The one crafted by the federal court,
- 3 yes, correct.
- 4 Q. So in order to read this map, if we
- 5 just count the number of seats that are in the
- 6 dark blue color, that would tell us how many
- 7 safe Democrat seats there are under Column M,
- 8 for example, in a 50/50 election?
- 9 A. You're correct.
- 10 Q. And if we move over one to the right,
- that would be a 51% Democratic election, 49%
- 12 Republican election?
- 13 A. Yes.
- 14 Q. What's the column labeled B Actual?
- 15 Do you know what that stands for?
- 16 A. Let me see. Okay. B Actual is most
- 17 likely based upon the actual average from the
- composite, which, as I recall, was 49.1%
- 19 Republican, but I'm not certain of that.
- 20 Q. And what's your understanding of what
- 21 the composite was?
- 22 A. Again, it's -- as I said, it's been
- awhile. Given that we're using composite, this
- could be a composite of the statewide elections
- 25 that Mr. Handrick and the team had estimated.

- 1 folder the Team Map Curve.
- **2** A. Team Map Curve xlsx?
- з Q. Yes.
- 4 A. Yes.
- 5 Q. Okay. And I guess I just want to --
- 6 maybe we can just confirm that, do you know --
- 7 it refers to the Team Map. Do you know if
- 8 that's the final map that was enacted?
- 9 A. I don't know.
- 10 Q. And then the testimony we just gave
- 11 with respect to the column headings --
- 12 A. Uh-huh.
- 13 Q. -- that same testimony that we just
- 14 heard with respect to the Current Map Curve,
- 15 would that -- those same answers would apply to
- this Team Map Curve?
- 17 A. Yes, the same reasoning and the same
- 18 coding is used, yes.
- **19** Q. So if someone wanted to use one of
- 20 these spreadsheets to determine what the
- 21 expected non-incumbent seat share would be for
- an election with a 51% Democratic vote share,
- 23 they should look at a column that's labeled
- **24** Index 49?
- 25 A. Yes.

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- did you do some work in terms of analyzing the
- 2 compactness of the districts that were enacted
- from an election with a 52% Republican vote
- share, you should look at a column for Index

2 expected -- determinant expected seat share

- 52, is that correct?
- 6 A. Yes.
- 7 Q. Can you go to the -- we can close out

1 Q. Okay. And then if there was an

- those spreadsheets there. If you have the one
- that's your -- the copy of the production you 9
- 10 made in the Baldus case. That was Exhibit 57
- in that case and I think 34 --11
- 12 MR. POLAND: 34 here.
- 13 Q. (By Mr. Keenan) -- in this case.
- 14 A. Yes.
- 15 Q. Okay. And if you go into the
- Wisconsin 2010 folder.
- 17 A. Give me a moment. Yes.
- 18 Q. In that folder do you see a
- spreadsheet entitled Wisconsin\_election\_data?
- 20 A. Yes.
- 21 Q. Okay. Do you also see a spreadsheet
- entitled Wisconsin election data rev1?
- 23 A. Yes.
- 24 Q. And I may be mistaken, but I believe
- Mr. Poland said that there wasn't such a file

- under Act 43? 3
- A. Compactness data were generated from
- the maps in preparation for trial, yes.
- 6 Q. And if you open up -- there's a file
- that's pretty close to that Wisconsin 1. It's 7
- called --8
- A. Wisc Compact? 9
- Q. Wisc Compact. If you could open that
- up, please. And my question is going to be,
- can you tell me what this document represents? 12
- A. Okay. This document represents a
- collection of different compactness measures 14
- that are generated by most redistricting 15
- software. They represent different types of 16
- compactness measures, whether they have to do 17
- with measures of circlitude (phonetic spelling)
- or filitude (phonetic spelling) or compactness 19
- 20 and population placement.
- There are seven or eight standard 21
- measures that exist. The most common that are 22
- used are what's called the Reock and the 23
- Polsby-Popper, which are basically a small 24
- circumscribing circle and then a perimetered

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- named Wisconsin election data on Exhibit 34.
- Does this -- looking at Exhibit 34 here, do you
- see such a file?
- 4 A. Yes.
- 5 Q. And if you go back to the main
- Wisconsin -- Wisc file.
- 7 A. Yes.
- 8 Q. Do you see a file that's labeled
- Wisconsin\_1? 9
- 10 A. Yes.
- 11 O. Okav. I believe Mr. Poland also said
- that he didn't believe there was a file named 12
- 13 Wisconsin\_1 on Exhibit 34. Do you see such a
- file on that exhibit? 14
- 15 A. Yes.
- MR. KEENAN: Those are the two that I 16
- 17 thought actually were in there.
- 18 MR. EARLE: We don't dispute that.
- MR. KEENAN: I just wanted to get 19
- that. 20
- MR. POLAND: That's fair. No. Thanks 21
- for making the record.
- 23 Q. (By Mr. Keenan) As part of your -- we
- can stay on that Exhibit 34. As part of your
- work as an expert witness in the Baldus case,

- area measure.
- 2 Q. And is it Reock? How do you pronounce
- R-e-o-c-k?
- 4 A. Reock.
- **5** Q. And what is the Reock method?
- A. It's the Brett Farve of methods in 6
- terms of its spelling. Sorry. 7
- 8 As I recall, the Reock measure -- and
- again, it's been awhile since I've messed with 9
- these. The Reock measure is a small 10
- circumscribing circle measure which basically
- argues what is the smallest circle that can 12
- 13 inscribe a district by design. So if you have
- a district shaped like your hand, you can draw 14
- a nice tight circle around it and it's a fairly 15
- compact district. 16
- 17 The perimeter to area measures, the
- Polsby-Popper measure, examines -- takes the 18
- perimeter of a district, makes a circle out of 19
- it and it covers a little area. That larger 20
- 21 circle is filled in by the area of the district
- that provided the perimeter. 22
- Taken together, these two measures 23
- help you ascribe general compactness.
- 25 Q. And if we look at the Reock method, I

- 1 see that there's three different columns there.
- 2 Do you know why there's three different
- 3 calculations?
- **4** A. You've got the Reock, the
- 5 Schwartzberg, the perimeter of the population,
- 6 circle of the population, polygon,
- 7 Polsby-Popper and the length/width measure, as
- 8 well as the Arenburg. So which one do you want
- 9 to have me look at?
- 10 Q. The Reock. And it looks like there's
- 11 C Reock, A Reock and D Reock. There's three
- 12 different ones.
- 13 A. Not on the sheet I'm looking at.
- 14 Q. Oh. Mine says Compactness Comparison.
- 15 It's the left most --
- MR. EARLE: Down here.
- 17 A. Oh, oh, oh.
- 18 Q. (By Mr. Keenan) Sorry.
- MR. EARLE: We were on the wrong
- sheet. Now we're on the right sheet.
- 21 Q. (By Mr. Keenan) I think some of the
- 22 data is the same between the sheets. And if
- you see the Reock it mentions -- there's like
- 24 three different columns.
- 25 A. Yeah.

- 1 A. Yes.
- 2 Q. So 44 is a copy of the Joint Pretrial
- 3 Report in the Baldus case, although you could
- 4 note I took some pages out because it was 145
- 5 pages.
- 6 MR. POLAND: I was going to say, it
- 7 should be longer than this.
- 8 O. (By Mr. Keenan) So it includes the
- 9 table of contents and then it has some relevant
- 10 paragraph numbers that will tell you about some
- of them. And then also 45 then is the tables
- that are exhibits to the pretrial report.
- MR. EARLE: Do you see what we have to
- 14 look forward to?
- 15 Q. (By Mr. Keenan) And so I think it will
- 16 be easiest to --
- THE WITNESS: I'm not coming out of
- 18 retirement. Sorry.
- 19 Q. (By Mr. Keenan) -- easiest to look at
- 20 Exhibit 45 first.
- 21 A. Yes.
- 22 Q. And look at Table 21, which is Page 30
- 23 on the bottom.
- 24 A. Yes.
- 25 Q. And then also we should open up Number

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- 1 Q. Do you know why there's three
- 2 different columns?
- 3 A. I'm not sure why. Well, the third
- 4 column is the difference between the first and
- 5 the second.
- 6 O. Oh.
- 7 A. I don't recall why there are two
- 8 measures here. But if you look, there's a high
- 9 degree of similitude between most of them.
- 10 Q. Okay. What did you determine was the
- mean Reock score for the assembly districts?
- 12 A. I don't recall.
- 13 Q. Does the spreadsheet reflect that?
- 14 A. Well, the mean A Reock is a .41. The
- mean B Reock is a .39. Yeah.
- MR. KEENAN: Okay. Would you mark
- this as the next exhibit? Which one is that
- 18 going to be?
- THE REPORTER: 44.
- 20 (Exhibit No. 44 marked.)
- MR. KEENAN: And we'll mark this one
- 22 as 45.
- 23 (Exhibit No. 45 marked.)
- 24 Q. (By Mr. Keenan) So the first one is
- 25 44?

- 1 44 to paragraph -- it looks like 182.
- 2 A. Yes.
- 3 Q. And 183. But you can see Paragraph
- 4 183 references Table 21.
- 5 A. Yes.
- 6 O. Okay. And can you tell me what -- in
- 7 Table 1 it says Source Gaddie. Do you see
- 8 that?
- 9 A. Yes.
- 10 Q. Okay. So what does Table 21 show for
- 11 the -- okay. First I should say on Table 21 it
- says smallest circle as one of the measures of
- 13 compactness.
- 14 A. Yes.
- 15 Q. Is it your understanding that that
- would be a reference to the Reock test?
- 17 A. That's the Reock test. Small
- 18 circumscribing circle, yes.
- 19 Q. And then the perimeter to area
- 20 category would reference the Polsby-Popper?
- 21 A. I believe so, yes.
- 22 Q. Okay. And so what did you calculate
- 23 the Reock test for the 2011 map to be the
- average?
- 25 A. For the 2011 map it's computed here as

NIC	hol; et al		
	Page 246		Page 248
1	being .39.	1	very much. I appreciate you coming down.
2	Q. Okay.	2	THE VIDEOGRAPHER: Going off the
3	A. Which is the more sensitive of the two	3	record. The time is 3:25 p.m. End of Disc 4
	Reock measures that were reported.		-
4	•	4	and end of deposition.
5	Q. And then if we go to the pretrial	5	(Discussion off the record.)
6	report.	6	MR. POLAND: Do you want to waive
7	A. Uh-huh.	7	signature or do you want to read it before
8	Q. In Paragraph 184.	8	read and sign?
9	A. Yes.	9	THE WITNESS: Yeah, I'm comfortable
10	Q. It says, "The average smallest circle	10	with everything I've said. I can waive
11	score for the entire assembly map is .28."	11	signature.
	A. Yes.	12	(Deposition concluded.)
13	Q. Range from .06 to .63. Is that	13	(2 op comon concressor)
14	correct?	14	
	A. No. That means that there's an error		
15		15	
16	in the pretrial report because it should say	16	
17	the average perimeter to area score. Because	17	
18	if you look at those numbers, the numbers	18	
19	indicated in Paragraph 184 conform to the	19	
20	numbers exhibited in the bottom half of the	20	
21	2011 assembly map column, which were perimeter	21	
22	errors. So there's actually an error in the	22	
23	pretrial report.	23	
24	Q. If you were to correct the error for	24	
25	the average smallest circle score for the	25	
	Page 247		Page 249
	Page 247	1	Page 249
1	Page 247 entire assembly map, how would you have it	1	CERTIFICATE
1 2		2	CERTIFICATE STATE OF OKLAHOMA ) SS:
	entire assembly map, how would you have it	2	CERTIFICATE  STATE OF OKLAHOMA )  COUNTY OF OKLAHOMA )
2	entire assembly map, how would you have it read? A. It would read .39.	2	CERTIFICATE STATE OF OKLAHOMA ) SS:
2 3 4	entire assembly map, how would you have it read? A. It would read .39. Q. Okay. And what would the range be?	2	CERTIFICATE  STATE OF OKLAHOMA )  COUNTY OF OKLAHOMA )
2 3 4 5	entire assembly map, how would you have it read? A. It would read .39. Q. Okay. And what would the range be? A. The range would be from .20 to .61.	2 3 4	CERTIFICATE  STATE OF OKLAHOMA )  COUNTY OF OKLAHOMA )  I, Susan Narvaez, a certified
2 3 4 5 6	entire assembly map, how would you have it read?  A. It would read .39. Q. Okay. And what would the range be? A. The range would be from .20 to .61. Q. Thanks. That's all we needed.	2 3 4 5	CERTIFICATE  STATE OF OKLAHOMA ) SS:  COUNTY OF OKLAHOMA )  I, Susan Narvaez, a certified  shorthand reporter within and for the State of
2 3 4 5 6 7	entire assembly map, how would you have it read?  A. It would read .39.  Q. Okay. And what would the range be?  A. The range would be from .20 to .61.  Q. Thanks. That's all we needed.  MR. KEENAN: Do you mind if I just	2 3 4 5 6	CERTIFICATE  STATE OF OKLAHOMA ) SS:  COUNTY OF OKLAHOMA )  I, Susan Narvaez, a certified  shorthand reporter within and for the State of Oklahoma, certify that RONALD KEITH GADDIE,
2 3 4 5 6 7 8	entire assembly map, how would you have it read?  A. It would read .39.  Q. Okay. And what would the range be?  A. The range would be from .20 to .61.  Q. Thanks. That's all we needed.  MR. KEENAN: Do you mind if I just take a break?	2 3 4 5 6 7	CERTIFICATE  STATE OF OKLAHOMA )  COUNTY OF OKLAHOMA )  I, Susan Narvaez, a certified  shorthand reporter within and for the State of Oklahoma, certify that RONALD KEITH GADDIE, Ph.D., was sworn to testify the truth; that the
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# IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF WISCONSIN

WILLIAM WHITFORD, ET AL., Plaintiffs,

Case No. 15-CV-421-bbc

V.

GERALD NICHOL, et al.,
Defendants.

### NOTICE OF VIDEOTAPED DEPOSITION OF RONALD KEITH GADDIE

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Madison, WI 53707-7857

Jason Glidewell Attorney at Law 516 East Central Anadarko, OK 73005

PLEASE TAKE NOTICE that, pursuant to Rule 45 of the Federal Rules of Civil Procedure, the plaintiffs named in the Western District of Wisconsin Case No. 15-cv-421, by their counsel, Law Office of Peter G. Earle and Rathje & Woodward, LLC, will take the deposition of Ronald Keith Gaddie on March 9, 2016, beginning at 9:00 AM.

The deposition will be conducted at Dodson Court Reporting, 425 NW 7<sup>th</sup> St,

Oklahoma City, OK 73102, and will be recorded stenographically by a person authorized

by law to administer oaths. The deposition will also be videotaped. The deposition will

continue from day to day until completed. A copy of the subpoena commanding the

witness's appearance and the production of documents, electronically stored information,

and tangible things is attached.

Dated this 17<sup>th</sup> day of February, 2016

CHICAGO LAWYERS' COMMITTEE FOR CIVIL RIGHTS UNDER LAW, INC.

Ruth Greenwood (pro hac vice) 100 N LaSalle St, Suite 600 Chicago, IL 60602 (312) 888-4194 rgreenwood@clccrul.org

Peter G. Earle State Bar No. 1012176 Law Office of Peter Earle LLC 839 N. Jefferson St. #300 Milwaukee, WI 53202 414-276-1076 peter@earle-law.com

Attorneys for Plaintiffs

### CERTIFICATE OF SERVICE

I hereby certify that I caused a true and correct copy of the attached NOTICE OF VIDEOTAPED DEPOSITION OF RONALD KEITH GADDIE to be served this 17<sup>th</sup> day of February, 2016, on the following parties, by first-class U.S. Mail, postage prepaid, and by email:

Brian P. Keenan Assistant Attorney General Wisconsin Department of Justice P.O. Box 7857 Madison, WI 53707-7857 Jason Glidewell Attorney at Law 516 East Central Anadarko, OK 73005

Ruth Greenwood

AO 88A (Rev. 02/14) Subpoena to Testify at a Deposition in a Civil Action

William Whitford, et al.

312-888-4194

### UNITED STATES DISTRICT COURT for the Western District of Wisconsin WILLIAM WHITFORD, et al. Plaintiff Civil Action No. 15-CV-421-bbc GERALD NICHOL, et al Defendant SUBPOENA TO TESTIFY AT A DEPOSITION IN A CIVIL ACTION RONALD KEITH GADDIE PROFESSOR OF POLITICAL SCIENCE, UNIVERSITY OF OKLAHOMA To: 222 DALE HALL TOWER, 455 W. LINDSEY, NORMAN, OK 73019 (Name of person to whom this subpoena is directed) Testimony: YOU ARE COMMANDED to appear at the time, date, and place set forth below to testify at a deposition to be taken in this civil action. If you are an organization, you must designate one or more officers, directors, or managing agents, or designate other persons who consent to testify on your behalf about the following matters, or those set forth in an attachment: Place: Dodson Court Reporting Date and Time: 425 NW 7th St Wednesday March 9, 2016 at 9:00 AM. Oklahoma City, OK 73102 stenographic and audiovisual means The deposition will be recorded by this method: \*\*Production: You, or your representatives, must also bring with you to the deposition the following documents, electronically stored information, or objects, and must permit inspection, copying, testing, or sampling of the material: Please produce all materials identified in Exhibit A no later than Wednesday March 2, 2016, by delivering them to 425 NW 7th St, Oklahoma City, OK 73102 The following provisions of Fed. R. Civ. P. 45 are attached – Rule 45(c), relating to the place of compliance; Rule 45(d), relating to your protection as a person subject to a subpoena; and Rule 45(e) and (g), relating to your duty to respond to this subpoena and the potential consequences of not doing so. Date: CLERK OF COURT OR Attorney's signature Signature of Clerk or Deputy Clerk Plaintiffs The name, address, e-mail address, and telephone number of the attorney representing (name of party)

Notice to the person who issues or requests this subpoena

Ruth Greenwood, Chicago Lawyers' Committee for Civil Rights Under Law, 100 N LaSalle St, Suite 600 Chicago IL 60602,

, who issues or requests this subpoena, are:

If this subpoena commands the production of documents, electronically stored information, or tangible things before trial, a notice and a copy of the subpoena must be served on each party in this case before it is served on the person to whom it is directed. Fed. R. Civ. P. 45(a)(4).

AO 88A (Rev. 02/14) Subpoena to Testify at a Deposition in a Civil Action (Page 2)

Civil Action No. 15-CV-421-bbc

### PROOF OF SERVICE

(This section should not be filed with the court unless required by Fed. R. Civ. P. 45.)

		dual and title, if ar	ny)		
☐ I served the	I served the subpoena by delivering a copy to the named individual as follows:  on (date)  ; or  I returned the subpoena unexecuted because:  Unless the subpoena was issued on behalf of the United States, or one of its officers or agents, I have also tendered to the witness the fees for one day's attendance, and the mileage allowed by law, in the amount of  \$				
			on (date)	; or	
☐ I returned th	e subpoena unexecuted be	cause:			
\$	· · · · · · · · · · · · · · · · · · ·				
My fees are \$	for travel a	nd \$	for services	s, for a total of \$	0
I declare under	penalty of perjury that this	s information is	s true.		
Date:					
			Server's sig	gnature	
	,		Printed name	and title	
			Server's a	ddress	

Additional information regarding attempted service, etc.:

AO 88A (Rev. 02/14) Subpoena to Testify at a Deposition in a Civil Action (Page 3)

### Federal Rule of Civil Procedure 45 (c), (d), (e), and (g) (Effective 12/1/13)

#### (c) Place of Compliance.

(1) For a Trial, Hearing, or Deposition. A subpoena may command a person to attend a trial, hearing, or deposition only as follows:

(A) within 100 miles of where the person resides, is employed, or regularly transacts business in person; or

(B) within the state where the person resides, is employed, or regularly transacts business in person, if the person

(i) is a party or a party's officer; or

(ii) is commanded to attend a trial and would not incur substantial expense.

### (2) For Other Discovery. A subpoena may command:

- (A) production of documents, electronically stored information, or tangible things at a place within 100 miles of where the person resides, is employed, or regularly transacts business in person; and
  - (B) inspection of premises at the premises to be inspected.

#### (d) Protecting a Person Subject to a Subpoena; Enforcement.

(1) Avoiding Undue Burden or Expense; Sanctions. A party or attorney responsible for issuing and serving a subpoena must take reasonable steps to avoid imposing undue burden or expense on a person subject to the subpoena. The court for the district where compliance is required must enforce this duty and impose an appropriate sanction—which may include lost earnings and reasonable attorney's fees—on a party or attorney who fails to comply.

#### (2) Command to Produce Materials or Permit Inspection.

- (A) Appearance Not Required. A person commanded to produce documents, electronically stored information, or tangible things, or to permit the inspection of premises, need not appear in person at the place of production or inspection unless also commanded to appear for a deposition, hearing, or trial.
- (B) Objections. A person commanded to produce documents or tangible things or to permit inspection may serve on the party or attorney designated in the subpoena a written objection to inspecting, copying, testing, or sampling any or all of the materials or to inspecting the premises—or to producing electronically stored information in the form or forms requested. The objection must be served before the earlier of the time specified for compliance or 14 days after the subpoena is served. If an objection is made, the following rules apply:
- (i) At any time, on notice to the commanded person, the serving party may move the court for the district where compliance is required for an order compelling production or inspection.
- (ii) These acts may be required only as directed in the order, and the order must protect a person who is neither a party nor a party's officer from significant expense resulting from compliance.

#### (3) Quashing or Modifying a Subpoena.

- (A) When Required. On timely motion, the court for the district where compliance is required must quash or modify a subpoena that:
  - (i) fails to allow a reasonable time to comply;
- (ii) requires a person to comply beyond the geographical limits specified in Rule 45(c);
- (iii) requires disclosure of privileged or other protected matter, if no exception or waiver applies; or

(iv) subjects a person to undue burden.

(B) When Permitted. To protect a person subject to or affected by a subpoena, the court for the district where compliance is required may, on motion, quash or modify the subpoena if it requires:

- (i) disclosing a trade secret or other confidential research, development, or commercial information; or
- (ii) disclosing an unretained expert's opinion or information that does not describe specific occurrences in dispute and results from the expert's study that was not requested by a party.
- (C) Specifying Conditions as an Alternative. In the circumstances described in Rule 45(d)(3)(B), the court may, instead of quashing or modifying a subpoena, order appearance or production under specified conditions if the serving party:
- (i) shows a substantial need for the testimony or material that cannot be otherwise met without undue hardship; and
  - (ii) ensures that the subpoenaed person will be reasonably compensated.

#### (e) Duties in Responding to a Subpoena.

- (1) Producing Documents or Electronically Stored Information. These procedures apply to producing documents or electronically stored information:
- (A) Documents. A person responding to a subpoena to produce documents must produce them as they are kept in the ordinary course of business or must organize and label them to correspond to the categories in the demand.
- (B) Form for Producing Electronically Stored Information Not Specified. If a subpoena does not specify a form for producing electronically stored information, the person responding must produce it in a form or forms in which it is ordinarily maintained or in a reasonably usable form or forms.
- (C) Electronically Stored Information Produced in Only One Form. The person responding need not produce the same electronically stored information in more than one form.
- (D) Inaccessible Electronically Stored Information. The person responding need not provide discovery of electronically stored information from sources that the person identifies as not reasonably accessible because of undue burden or cost. On motion to compel discovery or for a protective order, the person responding must show that the information is not reasonably accessible because of undue burden or cost. If that showing is made, the court may nonetheless order discovery from such sources if the requesting party shows good cause, considering the limitations of Rule 26(b)(2)(C). The court may specify conditions for the discovery.

#### (2) Claiming Privilege or Protection.

- (A) Information Withheld. A person withholding subpoenaed information under a claim that it is privileged or subject to protection as trial-preparation material must:
  - (i) expressly make the claim; and
- (ii) describe the nature of the withheld documents, communications, or tangible things in a manner that, without revealing information itself privileged or protected, will enable the parties to assess the claim.
- (B) Information Produced. If information produced in response to a subpoena is subject to a claim of privilege or of protection as trial-preparation material, the person making the claim may notify any party that received the information of the claim and the basis for it. After being notified, a party must promptly return, sequester, or destroy the specified information and any copies it has; must not use or disclose the information until the claim is resolved; must take reasonable steps to retrieve the information if the party disclosed it before being notified; and may promptly present the information under seal to the court for the district where compliance is required for a determination of the claim. The person who produced the information must preserve the information until the claim is resolved.

(g) Contempt.

The court for the district where compliance is required—and also, after a motion is transferred, the issuing court—may hold in contempt a person who, having been served, fails without adequate excuse to obey the subpoena or an order related to it.

### Exhibit A

You, or your representatives, must produce to the Plaintiffs, by March 2, 2016 the following documents, communications, electronically stored information, or objects, whether sent or received (collectively "materials"), that are in your actual or constructive possession, custody or control, and permit the inspection, copying, testing, or sampling of the materials:

- 1. All materials reviewed, relied upon, considered, and/or prepared by or available to you pertaining to the redistricting process in Wisconsin after the 2010 census, and/or the planning, development, negotiation, drawing, revision, redrawing, or discussion of the districts and maps codified in Wisconsin Act 43, or any draft, potential, or proposed redistricting plan. This includes but is not limited to:
  - a. All material you received and/or created in your work for the Wisconsin House and Senate Leadership from April 1, 2011 to June 30, 2011, including but not limited to correspondence, emails, plans, deposition transcripts, and/or summaries thereof.
  - b. All documents you consulted, reviewed, or relied upon in the course of your work for the Wisconsin House and Senate Leadership from April 1, 2011 to June 30, 2011.
  - c. Reports or other written materials prepared by you.
  - d. A copy of your most current curriculum vitae.
  - 2. All materials, including but not limited to e-mail, concerning any analyses, data, plans, procedures, and/or reports reviewed, relied upon, considered, or prepared by or available to any persons involved in the planning development, negotiation, drawing, revision, redrawing, or discussion of the districts and maps codified in Wisconsin Act 43 or any other draft, potential, or proposed redistricting plan.
  - 3. All materials, including but not limited to e-mail, concerning the identities of persons who participated in the planning, development, negotiation, drawing, revision, redrawing, or discussion of the districts and maps codified in Wisconsin Act 43 or any other draft, potential, or proposed redistricting plan.
  - 4. All materials, including but not limited to e-mail, concerning the objective facts referenced, used, or relied upon by or available to any persons involved in the planning, development, negotiation, drawing, revision, redrawing, or discussion of the districts and maps codified in Wisconsin Act 43 or any other draft, potential, or proposed redistricting plan.
  - 5. All communications, including but not limited to e-mail, with any persons or entities concerning the redistricting process or the planning, development, negotiation, drawing, revision, redrawing, or discussion of the districts and maps codified in Wisconsin Act 43 or any other draft, potential, or proposed redistricting plan.

6. The specific electoral data you reviewed prior to April 17, 2011, in the course of building a partisan score for the Wisconsin assembly districts which you referenced in the second paragraph of your memo dated April 17, 2011, which was marked as Exhibit 57 to your deposition dated January 20, 2012, a copy of which is attached hereto and incorporated herein by reference, in which you wrote:

"The measure of partisanship should exist to establish the change in the partisan balance of the district. We are not in court this time; we do not need to show that we have created a fair, balanced, or even a reactive map. But, we do need to show to lawmakers the political potential of the district.

I have gone through the electoral data for state office and built a partisan score for the assembly districts. It is based on a regression analysis of the Assembly vote from 2006, 2008, and 2010, and it is based on prior election indicators of future election performance.

I am also building a series of visual aides to demonstrate the partisan structure of Wisconsin politics. The graphs will communicate the top-to-bottom party basis of the state politics. It is evident, from the recent Supreme Court race and also the Milwaukee County executive contest, that the partisanship of Wisconsin is invading the ostensibly non-partisan races on the ballot this year."

7. The specific partisan scores assigned to the assembly districts by you which you referenced in the second paragraph of your memo dated April 17, 2011, which was marked as Exhibit 57 to your deposition dated January 20, 2012, in which you wrote:

"The measure of partisanship should exist to establish the change in the partisan balance of the district. We are not in court this time; we do not need to show that we have created a fair, balanced, or even a reactive map. But, we do need to show to lawmakers the political potential of the district.

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I am also building a series of visual aides to demonstrate the partisan structure of Wisconsin politics. The graphs will communicate the top-to-bottom party basis of the state politics. It is evident, from the recent Supreme Court race and also the Milwaukee County executive contest, that the partisanship of Wisconsin is invading the ostensibly non-partisan races on the ballot this year."

8. The specific regression analysis referenced by you in the second paragraph of your memo dated April 17, 2011, which was marked as Exhibit 57 to your deposition dated January 20, 2012, in which you wrote:

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9. The identity and location of all documents generated in the course of conducting the regression analysis referenced by you in the second paragraph of your memo dated April 17, 2011, which was marked as Exhibit 57 to your deposition dated January 20, 2012, in which you wrote:

"The measure of partisanship should exist to establish the change in the partisan balance of the district. We are not in court this time; we do not need to show that we have created a fair, balanced, or even a reactive map. But, we do need to show to lawmakers the political potential of the district.

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I am also building a series of visual aides to demonstrate the partisan structure of Wisconsin politics. The graphs will communicate the top-to-bottom party basis of the state politics. It is evident, from the recent Supreme Court race and also the Milwaukee County executive contest, that the partisanship of Wisconsin is invading the ostensibly non-partisan races on the ballot this year."

10. The identity and location of all documents generated in the course of building the series of visual aides to demonstrate the partisan structure of Wisconsin politics referenced by you in the third paragraph of your memo dated April 17, 2011, which was marked as Exhibit 57 to your deposition dated January 20, 2012, in which you wrote:

"The measure of partisanship should exist to establish the change in the partisan balance of the district. We are not in court this time; we do not need to show that we have created a fair, balanced, or even a reactive map. But, we do need to show to lawmakers the political potential of the district.

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I am also building a series of visual aides to demonstrate the partisan structure of Wisconsin politics. The graphs will communicate the top-to-bottom party basis of the state politics. It is evident, from the recent Supreme Court race and also the Milwaukee County executive contest, that the partisanship of Wisconsin is invading the ostensibly non-partisan races on the ballot this year."

11. All spreadsheets, in native format, in your possession containing data regarding partisan electoral performance of Wisconsin voters prepared during the months of April, May, and June of 2011.

CHICAGO LAWYERS' COMMITTEE FOR CIVIL RIGHTS UNDER LAW, INC.

100 N. LA SALLE ST., SUITE 600 CHICAGO, ILLINOIS 60602-2403 URBAN PARTNERSHIP BANK CHICAGO, IL 60649-2016 2-422/710

29181

DATE

029181 CHECK AMOUNT

2/12/2016

\$67.00

PAY

Sixty-Seven exactly\*\*\*\*\*\*\*

TO THE ORDER Ronald K. Gaddie OF: 222 Dale Hall Tower 455 W Lindsey Norman, OK 73019

TWO SIGNATURES REQUIRED OVER \$2500.00

AUTHORIZED SIGNATURE

"O 29181" #071004226# #142 303 1#

## **EXHIBIT 31**

Green Lexar flash drive produced by Professor Gaddie during his deposition

Deposition date: March 9, 2016

<sup>\*</sup>A hard copy of the flash drive will be hand-delivered to the clerk.



April 11, 2011

Professor Ronald Gaddie University of Oklahoma Department of Political Science Norman, OK 73019

Re: Consulti

Consulting Services Agreement

Dear Professor Gaddie:

Attorneys at Law
One South Pinckney Street
Suite 700
Madison, WI 53703
P.O. Box 1806
Madison, WI 53701-1806
Phone 608.257.3501
Fax 608.283.2275

Michael Best & Friedrich LLP

Eric M. McLeod
Direct 608.283.2257
Email emmcleod@michaelbest.com

Michael Best & Friedrich LLP ("MB&F") is currently engaged to represent the Wisconsin State Senate, by its Majority Leader Scott L. Fitzgerald ("Senate") and the Wisconsin State Assembly, by its Speaker Jeff Fitzgerald ("Assembly"), in connection with matters relating to the reapportionment of the Wisconsin Senate, Assembly and Congressional Districts arising out of the 2010 census (the "Representation"). We are pleased to confirm your retention to serve as a consultant to MB&F in connection with the Representation. This correspondence will serve as the agreement (the "Agreement") with you to provide the services described herein.

### SCOPE OF ENGAGEMENT AND EXPECTATIONS

As a consultant to MB&F in connection with the Representation, we expect your duties to include service as an independent advisor on the appropriate racial and/or political make-up of legislative and congressional districts in Wisconsin. This will include, in part, providing advice based on certain statistical and demographic information and on election data or information. These consulting services may include, as well, testifying on the results of your work.

All work performed by you in connection with the Representation shall be for the sole purpose of assisting MB&F in rendering legal advice to the Senate and Assembly. Said work contemplates services of a character and quality that are adjunct to our services as lawyers and you shall perform said work at our direction. Accordingly, all communications between you and MB&F, as well as communications with the Senate and Assembly, and work performed by you in connection with the Representation, shall be confidential and made solely for the purpose of assisting counsel in rendering legal advice.

You will not discuss with or otherwise disclose to anyone, or with any entity, other than MB&F and the Senate or Assembly, without our written authorization, the nature or content of any oral or written communications or of any information or work performed related to the Representation. You will not disclose or permit inspection of any papers or documents related to the Representation without our written authorization in advance. All work papers, records or other documents or other things regardless of their nature and the source from which they emanate, which are related to the Representation, shall be held by you solely for our convenience and subject to our own qualified right to instruct you with respect to possession and control. Any work papers or materials prepared by you, or under your direction, belong to

EXHIBIT NO. 66

1/10/12 RPTR PC

For the Record, Inc. (608) 833-0392

michaelbest.com





Professor Ronald Gaddie April 11, 2011 Page 2

the Senate pursuant to the Representation, and every page must be sealed or otherwise stamped "Attorney/Client Work-Product Privilege Confidential."

### TERM AND PAYMENT FOR SERVICES

The term of this engagement shall commence upon execution of this Agreement by you and MB&F (the "Parties") and will conclude upon written notice by either Party (the "Termination Date").

During the term of this Agreement, you will be compensated at a rate of \$300 per hour.

In addition to compensation for work performed, you will also be reimbursed for your expenses in accordance with the Expense Reimbursement Policy of Michael Best.

While you will be a consultant for MB&F, the Senate and Assembly, for whom your services are being procured, are solely responsible for payment for your services pursuant to a retainer that has been established. In no event shall MB&F be responsible for payment for your services. In the event the retainer is exhausted, the remaining amount due shall be paid directly by the Senate and Assembly.

This Agreement does not establish an employer/employee relationship between you and MB&F, but rather you will be an independent contractor. As such, you will be responsible for securing insurance, retirement or other similar benefits and will not be covered by any insurance or other benefits MB&F may ordinarily extend to its employees.

#### AMENDMENT OF AGREEMENT

Amendments to this Agreement shall be in writing and executed by each of the Parties.

#### NOTICES

Any notice permitted or required under this Agreement shall be sent to the following addresses:

If to Prof. Gaddie:

Professor Ronald Gaddie

University of Oklahoma

Department of Political Science

Norman, OK 73019

If to MB&F:

Michael Best & Friedrich LLP Attention: Eric M. McLeod

One South Pinckney Street, Suite 700

Madison, WI 53703 Fax: 608-283-2275

michaelbest.com



Professor Ronald Gaddie April 11, 2011 Page 3

If you agree with the terms of this Agreement, please sign in the space provided below and return an executed copy to us. An additional copy has been provided for your records. We look forward to a mutually satisfying project.

Sincerely,

MICHAEL BEST & FRIEDRICH LLP

Eric M. McLeod

TERMS OF ENGAGEMENT ACKNOWLEDGED AND AGREED TO this \_//\_ day of \_\_\_\_\_\_\_, 2011.

Prof. Ronald Gaddie

029472-0001\9087432.1

The measure of partisanship should exist to establish the change in the partisan balance of the district. We are not in court this time; we do not need to show that we have created a fair, balanced, or even a reactive map. But, we do need to show to lawmakers the political potential of the district.

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Case: 3:15-cv-00421-jdp Document #: 108-6 Filed: 05/02/16 Page 1 of 5

Milwaukee\_Gaddie\_4\_16\_11\_V1\_B Assembly Senate DISTRICT DISTRICT 51.15% 51.22% 0.07% 54.04% 53.48% -0.56% 54.93% 53.82% -1.11% 56.10% 55.81% -0.29% 53.31% 53.76% 0.45% 55.44% 54.14% -1.30% 53.74% 55.30% 1.56% 59.77% 59.49% -0.28% 48.20% 44.42% -3.78% 40.52% 37.54% -2.98% 21.22% 22.39% -1.17% 36.73% 35.67% -1.06% 10.27% 16.52% 6.25% 17.58% 19.41% 1.83% 17.63% 11 11.91% 5.72% 29.23% 24.92% -4.31% 43.67% 55.57% 11.90% 50.62% 54.90% 4.28% 59.06% 54.40% -4.66% 48.21% 54.61% 6.40% 14.21% 13.02% -1.19% 14.12% 17.86% 3.74% 13.21% 22.95% 9.74% 15.28% 15.86% 0.58% 29.15% 26.71% -2.44% 41.13% 39.65% -1.48% -1.98% 43.71% 41.73% 51.92% 52.85% 0.93% 39.05% 56.14% 52.82% 62.31% 9.49% 17.09% 51.70% 61.82% 10.12% 67.29% 55.27% -12.02% 57.67% 25 52.79% 53.33% 52.96% 4.71% 0.54% 45.42% 54.99% 9.57% 64.23% 59.20% 5.03% 28 54.94% 53.14% 53.30% 54.85% 0.16% 0.09% 51.32% 50.92% -0.40% 30 53.29% 53.81% 0.52% 59.08% 31 67.57% 67.64% 58.42% -9.22% -8.49% 32 61.06% 62.14% 1.08% 72.63% 72.24% 33 0.39% 53.91% 54.51% 53.00% -1.51% 53.37% 0.54% 52.30% 52.43% 0.13% 53.06% 36 56.44% 3.38% 51.33% 55.61% 4.28% 59.22% 59.19% -0.03% 65.80% 59.84% -5.96% 60.35% 62.24% 1.89% 58.50% 55.95% -2.55% 55.86% 56.06% 0.20% 60.60% 56.99% -3.61% 48.54% 42.99% -5.55% 44.14% 44.59% 0.45% 41.20% 40.45% -0.75% 36.74% 0.53% 44 37.27% 42.39% 53.84% 11.45% 42.07% 44.57% 2.50% 39.06% 36.54% -2.52% 47 48.69% 39.36% -9.33% 28.03% 27.24% -0.79% 49.93% 0.25% 48.46% 49.58% 1.12% 49.68% 51.77% 52.08% -0.31% 44.01% 47.13% 3.12% 57.88% 55.18% 0.22% 57.39% 0.49% 54.96% 62.74% 63.58% 0.84% 45.08% 45.28% 0.20% 49.34% 57.19% 53.32% 52.56% -0.76% 7.85% 19 -6.93% 61.05% 54.12% 47.26% 46.45% -0.81% 68.06% 70.90% 70.79% -0.11% 20 70.55% -2.49% 61.52% 72.74% -11.22% 68.12% 71.32% 3.20% 58.82% 8.96% 61 35.98% 33.44% -2.54% 21 49.86% 44.35% 62.45% 18.10% 63.09% 56.78% -6.31% 42.16% 6.50% 37.34% 35.66% 47.56% -10.22% 45.44% 36.00% -9.44% 59.12% 57.24% -1.88% -0.09% 51.72% 51.63% 49.98% 51.78% 1.80% 45.01% 51.15% 6.14% 69 53.57% 54.06% -0.49%

1 00. C 1 0 . N.J.1
created 5/9/11 5:39 pm
accessed 4/27/12 4:50 pm
modified 4/27/12 4:50 pm
file path: /USOX/afolte/Destato
/ projects/ plan Compariso
- x Ism

DISTRICT	Current	New		DISTRICT	Current		
72	49.03%	50.38%	1.35%				(4)
73	39.55%	40.05%	0.50%	25	44.88%	45.67%	0.79%
74	43.78%	45.03%	1.25%			1	
75	51.71%	52.31%	0.60%			4 84 34	9 1, 4
76	24.29%	20.80%	-3.49%	26	20.85%	20.85%	0.00%
77	23.88%	24.52%	0.64%		B A Section	8, 20	M., 200
78	14.09%	17.18%	3.09%				4
79	37.49%	36.70%	-0.79%	27	38.38%	39.67%	1.29%
80	42.15%	39.44%	-2.71%			14	
81	36.16%	39.11%	2.95%			1000	
82	58.59%	55.72%	-2.87%	28	64.48%	62.55%	-1.93%
83	69.70%	70.25%	0.55%			1	
84	64.99%	61.26%	-3.73%		1 11 11	110 11	
85	48.91%	47.54%	-1.37%	29	52.00%	54.17%	2.17%
86	54.56%	55.31%	0.75%				1, 15
87	52.16%	53.42%	1.26%				
88	44.85%	53.47%	8.62%	30	50.38%	52.62%	2.24%
89	55.76%	55.58%	-0.18%				
90	49.59%	40.13%	-9.46%		4		5
91	45.87%	44.45%	-1.42%	31	46.89%	44.98%	-1.91%
92	50.79%	53.85%	3.06%	1.07			
93	44.73%	39.55%	-5.18%				Late and
94	51.57%	51.93%	0.36%	32	44.43%	44.60%	0.17%
95	36.02%	36.26%	0.24%				
96	45.32%	46.24%	0.92%				1 1 1
97	59.96%	62.39%	2.43%	33	68.84%	67.97%	-0.87%
98	70.96%	67.99%	-2.97%				
99	73.35%	69.84%	-3.51%				10.11

0.26%

-0.73%

50.00%

40.95%

49.74% 41.68% 46.72%

46.21%

-0.51%

Current N	Лар		New Map		
	Assembly	Senate		Assembly	Senate
Safe GOP (55%+)	27	7	Safe GOP (55%+)	34	10
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1-54.9%):	18	8
Total GOP Seats (safe + lean):	40	15	Total GOP Seats (safe + lean):	52	18
Swing (48-52%):	19	5	New Swing (48-52%)	9	2
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	6	2
Safe DEM (-45%):	33	10	Safe DEM (-45%):	32	11
Total DEM Seats (safe + lean):	40	13	Total DEM Seats (safe + lean):	38	13



Statewide 2 Milwaukee Gaddie 4 16 11 V1 8

F			_wiiiwaukee	_Gaudie_	4_16_11_V1_		
		Assembly		21.41	100° 17	Senate	
DISTRICT	Current	New	Delta	DISTRICT			elta
2	51.15%	51.22%	0.07%	The second second second	54.04%	53.48%	-0.569
3	54.93% 56.10%	53.82% 55.81%	-1.11% -0.29%	The second second			
4	53.31%	53.76%	0.45%		55.44%	54.15%	-1.299
5	53.74%	55.31%	1.57%	-	33.4476	34.1376	-1.257
6	59.77%	53.47%	-6.30%				
7	48.20%	44.42%	-3.78%	3	40.52%	37.54%	-2.989
8	22.39%	21.22%	-1.17%				
9	36.73%	35.67%	-1.06%		1 = 1		14
10	10.27%	16.52%	6.25%	4	17.58%	19.41%	1.839
11	11.91%	17.63%	5.72%				
12	29.23%	24.92%	-4.31%				
13 14	43.67%	55.57%	11.90%	5	50.62%	54.90%	4.289
15	59.06% 48.21%	54.40% 54.61%	-4.66% 6.40%				
16	14.21%	13.02%	-1.19%	6	14.12%	17.86%	3.749
17	13.21%	22.95%	9.74%	o .	14.1270	17.80%	3.747
18	15.28%	15.86%	0.58%				
19	29.15%	26.71%	-2.44%	7	41.13%	39.65%	-1.489
20	43.71%	41.73%	-1.98%				
21	51.92%	52.85%	0.93%		7. 1		
22	39.05%	56.14%	17.09%	8	52.82%	62.31%	9.49%
23	51.70%	61.82%	10.12%	5 10 5 5	8 00 10	14 5 14	9e (
24	67.29%	69.84%	2.55%				
25 26	52.79%	53.33%	0.54%	9	52.96%	57.67%	4.71%
27	45.42% 59.20%	54.99% 64.23%	9.57%				
28	54.85%	54.94%	5.03% 0.09%	10	53.14%	53.30%	0.16%
29	51.32%	50.92%	-0.40%	10	33.1470	33.30%	0.10%
30	53.29%	53.81%	0.52%				
31	67.57%	56.05%	-11.52%	11	67.64%	58.19%	-9.45%
32	61.06%	62.73%	1.67%		1 5 1	1 1	
33	72.24%	56.31%	-15.93%				il deleter
34	54.51%	53.44%	-1.07%	12	53.37%	53.89%	0.52%
35	52.30%	53.29%	0.99%				
36	53.06%	55.07%	2.01%				
37	51.33%	60.43%	9.10%	13	59.22%	61.69%	2.47%
38 39	65.80% 60.35%	62.52% 62.04%	-3.28% 1.69%				
40	58.50%	55.67%	-2.83%	14	55.86%	55.64%	-0.22%
41	60.60%	55.29%	-5.31%		33.80%	33.0478	-0.2270
42	48.54%	55.97%	7.43%				
43	44.14%	38.55%	-5.59%	15	41.20%	38.75%	-2.45%
44	36.74%	37.27%	0.53%				
45	42.39%	40.82%	-1.57%		as 1.48		14 17
46	42.07%	44.57%	2.50%	16	39.06%	36.54%	-2.52%
47	48.69%	39.36%	-9.33%				
48	28.03%	27.24%	-0.79%				
49	49.68%	49.74%	0.06%	17	48.46%	49.23%	0.77%
50 51	52.08%	51.90% 46.20%	-0.18% 2.19%				
52	57.39%	57.88%	0.49%	18	54.96%	55.05%	0.09%
53	62.74%	62.78%	0.43%	10	34.90%	33.0376	0.0376
54	45.08%	45.19%	0.11%			30° 31	
55	49.34%	57.94%	8.60%	19	53.32%	52.56%	-0.76%
56	61.05%	53.44%	-7.61%				
57	47.26%	46.45%	-0.81%				
58	70.90%	70.79%	-0.11%	20	70.55%	68.06%	-2.49%
59	72.74%	61.52%	-11.22%				
60	68.12%	71.32%	3.20%	24		10000	<u>.</u>
61	35.98%	57.24%	21.26%	21	49.86%	57.79%	7.93%
62	44.35%	59.48%	15.13%	100		1 1	
63 64	63.09% 35.66%	56.78% 42.16%	-6.31% 6.50%	22	47 FC0/	27 2/10/	-10 2204
65	45.44%	36.00%	-9.44%	4.4	47.56%	37.34%	-10.22%
66	59.12%	33.44%	-25.68%				
67	51.72%	51.63%	-0.09%	23	49.98%	51.75%	1.77%
68	45.01%	50.00%	4.99%		13.30%	31.7370	2.7770
69	54.06%	53.67%	-0.39%				71. 1
70	49.74%	47.54%	-2.20%	24	46.72%	46.64%	-0.08%
					The second secon		

DISTRICT	Current	New	Delta	DISTRICT	Current	New	Delta
72	49.03%	51.69%	2.66%			THE RESERVE OF THE PARTY OF THE	Control of the Contro
73	39.55%	40.05%	0.50%	25	44.88%	45.67%	0.79%
74	43.78%	45.03%	1.25%				
75	51.71%	52.31%	0.60%				
76	24.29%	20.80%	-3.49%	26	20.85%	20.85%	0.00%
77	23.88%	24.52%	0.64%		1		
78	14.09%	17.18%	3.09%			,	
79	37.49%	36.70%	-0.79%	27	38.38%	40.45%	2.07%
80	42.15%	40.32%	-1.83%				
81	36.16%	44.54%	8.38%		1 111111	1 1111	
82	58.59%	55.72%	-2.87%	28	64.48%	62.49%	-1.99%
83	69.70%	70.15%	0.45%			1	
84	64.99%	61.26%	-3.73%		1 1, 11	3 35 37	
85	48.91%	53.65%	4.74%	29	52.00%	54.23%	2.23%
86	54.56%	55.47%	0.91%		1 11		
87	52.16%	53.42%	1.26%				9 11 21
88	44.85%	58.65%	13.80%	30	50.38%	52.29%	1.91%
89	55.76%	55.58%	-0.18%				
90	49.59%	40.13%	-9.46%	W 124		1.119	18.00
91	45.87%	44.31%	-1.56%	31	46.89%	44.94%	-1.95%
92	50.79%	39.55%	-11.24%				
93	44.73%	51.15%	6.42%				1
94	51.57%	51.93%	0.36%	32	44.43%	44.63%	0.20%
95	36.02%	36.26%	0.24%				
96	45.32%	46.40%	1.08%				
97	59.96%	62.39%	2.43%	33	68.84%	67.98%	-0.86%
98	70.96%	67.99%	-2.97%			7.5	
99	73.35%	72.66%	-0.69%	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	. 256		

Current Map				New Map	
	Assembly	Senate		Assembly	Senate
Safe GOP (55%+)	27	7	Safe GOP (55%+)	35	10
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1	-54.9%): 17	8
Total GOP Seats (safe + lean):	40	15	Total GOP Seats (saf	e + lean): 52	18
Swing (48-52%):	19	5	New Swing (48-52%)	9	2
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1	1-47.9%): 6	2
Safe DEM (-45%):	33	10	Safe DEM (-45%):	32	11
Total DEM Seats (safe + lean):	40	13	Total DEM Seats (saf	e + lean): 38	13

## Case: 3:15 ev 00421 jdp Document #: 108-6 Filed: 05/02/16 Page 3 of 5

		Assembly	.4		:: 3:15 ev (	Senate	
DISTRICT	Current	New	Delta	DISTRICT	Current N		Delta
1	51.15%	51.22%	0.07%		54.04%	53.73%	-0.31%
2	54.93%	54.84%	-0.09%			331,373	0.027
3	56.10%	55.58%	-0.52%				
4	53.31%	53.47%	0.16%	2	55.44%	55.23%	-0.21%
5	53.74%	54.28%	0.54%				
6	59.77%	58.33%	-1.44%			11111111	
7	48.20%	45.38%	-2.82%	3	40.52%	38.12%	-2.40%
8	22.39%	30.48%	8.09%				Luille
9	36.73%	29.14%	-7.59%		17.500/	40.5204	2.050
11	10.27%	12.59% 19.58%	2.32% 7.67%	4	17.58%	19.63%	2.05%
12	29.23%	27.51%	-1.72%				
13	43.67%	58.67%	15.00%	5	50.62%	57.72%	7.10%
14	59.06%	58.64%	-0.42%				71207
15	48.21%	55.48%	7.27%				
16	14.21%	10.54%	-3.67%	6	14.12%	15.55%	1.43%
17	13.21%	19.84%	6.63%				
18	15.28%	14.94%	-0.34%				
19	29.15%	28.03%	-1.12%	7	41.13%	40.53%	-0.60%
20	43.71%	43.12%	-0.59%				***************************************
21	51.92% 39.05%	52.94%	1.02%	0	52.0204	50.000/	0.000
23	51.70%	66.82% 57.64%	27.77% 5.94%	8	52.82%	60.88%	8.06%
24	67.29%	58.49%	-8.80%				
25	52.79%	53.26%	0.47%	9	52.96%	55.19%	2.23%
26	45.42%	55.97%	10.55%		52.50,0	33.1370	2.2370
27	59.20%	56.19%	-3.01%				
28	54.85%	55.00%	0.15%	10	53.14%	53.32%	0.18%
29	51.32%	50.97%	-0.35%			2.17.1	
30	53.29%	53.78%	0.49%				
31	67.57%	56.33%	-11.24%	11	67.64%	60.13%	-7.51%
32	61.06%	62.27%	1.21%				
33	72.24%	61.81%	-10.43%		Latitude 1		11,000
34	54.51%	55.22%	0.71%	12	53.37%	54.39%	1.02%
35 36	52.30%	52.99% 54.84%	0.69%				
37	53.06% 51.33%	54.84%	1.78% 6.78%	10	50 220/	60 170/	0.050/
38	65.80%	60.45%	-5.35%	15	59.22%	60.17%	0.95%
39	60.35%	62.00%	1.65%				
40	58.50%	58.07%	-0.43%	14	55.86%	56.02%	0.16%
41	60.60%	55.16%	-5.44%			1	
42	48.54%	54.94%	6.40%				
43	44.14%	43.06%	-1.08%	15	41.20%	40.17%	-1.03%
44	36.74%	37.22%	0.48%				
45	42.39%	40.08%	-2.31%			or file	
46	42.07%	42.39%	0.32%	16	39.06%	34.13%	-4.93%
47	48.69%	33.35%	-15.34%			22.8	200
48	28.03%	27.56%	-0.47%	17	40,450/	40.2204	0.770/
49 50	49.68%	49.59%	-0.09%	Τ/	48.46%	49.23%	0.77%
51	52.08% 44.01%	52.06% 46.23%	-0.02% 2.22%		1, 11		
52	57.39%	59.06%	1.67%	18	54.96%	55.01%	0.05%
53	62.74%	61.85%	-0.89%		54.50%	33.3170	0.0370
54	45.08%	45.22%	0.14%		1.011.	200	e 3-6
55	49.34%	55.06%	5.72%	19	53.32%	53.02%	-0.30%
56	61.05%	58.86%	-2.19%		1 1 1 1 1 1	1.1.1.1	0.110
57	47.26%	44.50%	-2.76%		4,41		
58	70.90%	70.54%	-0.36%	20	70.55%	69.46%	-1.09%
59	72.74%	68.31%	-4.43%				
60	68.12%	69.52%	1.40%	24	10	111119	
61	35.98%	57.22%	21.24%	21	49.86%	57.77%	7.91%
62 63	44.35%	56.56%	12.21%		H		
64	63.09%	59.64% 42.72%	-3.45% 7.06%	22	47.56%	36.97%	-10.59%
65	45.44%	35.92%	-9.52%	4.4	47.50%	30.9/%	-10.59%
66	59.12%	31.71%	-9.52%				
67	51.72%	51.67%	-0.05%	23	49.98%	51.75%	1.77%
68	45.01%	49.38%	4.37%	10 3 20 4	43.3070	31.7370	1.///0
69	54.06%	54.16%	0.10%				
70	49.74%	50.73%	0.99%	24	46.72%	47.51%	0.79%
THE RESERVE OF THE PERSON	The second secon			And in case of the			

DISTRICT	Current	New	Delta	DISTRICT	Current	New	Delta
72	49.03%	51.49%	2.46%			West of the second seco	
73	39.55%	40.16%	0.61%	25	44.88%	44.88%	0.00%
74	43.78%	42.89%	-0.89%	1 2 2	1	14	10.00
75	51.71%	52.18%	0.47%				8 H H
76	24.29%	14.49%	-9.80%	26	20.85%	20.98%	0.13%
77	23.88%	19.23%	-4.65%			1, 0	
78	14.09%	30.84%	16.75%				
79	37.49%	41.80%	4.31%	27	38.38%	41.49%	3.11%
80	42.15%	38.55%	-3.60%		19.1	1.	
81	36.16%	44.56%	8.40%		1.1.1.1.1	77,60	
82	58.59%	57.08%	-1.51%	28	64.48%	60.93%	-3.55%
83	69.70%	68.31%	-1.39%	100		1	
84	64.99%	57.10%	-7.89%				
85	48.91%	48.38%	-0.53%	29	52.00%	52.47%	0.47%
86	54.56%	55.08%	0.52%		100	1, 1,	
87	52.16%	53.74%	1.58%				
88	44.85%	53.19%	8.34%	30	50.38%	50.55%	0.17%
89	55.76%	55.73%	-0.03%				
90	49.59%	40.40%	-9.19%	- 12-5			1,000
91	45.87%	39.57%	-6.30%	31	46.89%	44.94%	-1.95%
92	50.79%	44.30%	-6.49%	45.65			
93	44.73%	51.10%	6.37%			Line of	1.1.
94	51.57%	51.91%	0.34%	32	44.43%	44.63%	0.20%
95	36.02%	36.36%	0.34%			0 1000	
96	45.32%	46.40%	1.08%				
97	59.96%	62.91%	2.95%	33	68.84%	68.60%	-0.24%
98	70.96%	67.02%	-3.94%			1 1	0
99	73.35%	74.85%	1.50%	4.444.22		1.1.11	

40.72%

Current M	ap		New Map		
	Assembly	Senate		Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	38	12
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1-54.9%):	14	5
Total GOP Seats (strong + lean):	40	15	Total GOP Seats (strong + lean):	52	17
Swing (48-52%):	19	5	New Swing (48-52%)	10	3
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	4	1
Strong DEM (-45%):	33	10	Strong DEM (-45%):	33	12
Total DEM Seats (strong + lean):	40	13	Total DEM Seats (strong + lean):	37	13

## Case: 3:15 ev 00421 jdp Document #: 108-6 Filed: 05/02/16 Page 4 of 5

		Assembly	Final	Senate				
DISTRICT	Current	New	Dolta	DISTRICT	Current Ne		1+-	
99	73.35%	74.85%	1.50%		54.04%	53.73% De	-0.31%	
58	70.90%	70.54%	-0.36%		34.04/0	33.7376	-0.31/6	
60	68.12%	69.52%	1.40%					
59	72.74%	68.31%	-4.43%	2	55.44%	55.23%	-0.21%	
83	69.70%	68.31%	-1.39%				101	
98	70.96%	67.02%	-3.94%			14.4	141	
22	39.05%	66.82%	27.77%	3	40.52%	38.12%	-2.40%	
97	59.96%	62.91%	2.95%			10.7		
32	61.06%	62.27%	1.21%	4	17.500/	10.630/	2.05%	
39 53	60.35%	62.00% 61.85%	1.65% -0.89%	4	17.58%	19.63%	2.05%	
33	72.24%	61.81%	-10.43%		-			
38	65.80%	60.45%	-5.35%	5	50.62%	57.72%	7.10%	
63	63.09%	59.64%	-3.45%			11.11		
52	57.39%	59.06%	1.67%		10000	China - Prints	******	
56	61.05%	58.86%	-2.19%	6	14.12%	15.55%	1.43%	
13	43.67%	58.67%	15.00%					
14	59.06%	58.64%	-0.42%	-	41 1204	40 5300	0.600	
24 6	67.29%	58.49%	-8.80% -1.44%	/	41.13%	40.53%	-0.60%	
5 37	59.77% 51.33%	58.33% 58.11%	-1.44% 6.78%					
40	51.33%	58.11%	-0.43%	8	52.82%	60.88%	8.06%	
23	51.70%	57.64%	5.94%		1 2 2 2	11 11	2,007	
61	35.98%	57.22%	21.24%		it-rife:	11000	****	
84	64.99%	57.10%	-7.89%	9	52.96%	55.19%	2.23%	
82	58.59%	57.08%	-1.51%					
62	44.35%	56.56%	12.21%					
31	67.57%	56.33%	-11.24%	10	53.14%	53.32%	0.18%	
27	59.20%	56.19%	-3.01%					
26 89	45.42% 55.76%	55.97% 55.73%	10.55% -0.03%	11	67.64%	60.13%	-7.51%	
3	56.10%	55.58%	-0.52%		07.0470	00.1370	7.517	
15	48.21%	55.48%	7.27%					
34	54.51%	55.22%	0.71%	12	53.37%	54.39%	1.02%	
41	60.60%	55.16%	-5.44%					
86	54.56%	55.08%	0.52%					
55	49.34%	55.06%	5.72%	13	59.22%	60.17%	0.95%	
28	54.85%	55.00%	0.15%					
42	48.54%	54.94%	6.40%	1.0	55.86%	56.02%	0.16%	
2 36	54.93%	54.84% 54.84%	-0.09% 1.78%	14	33.86%	36.02%	0.107	
5	53.74%	54.28%	0.54%					
69	54.06%	54.16%	0.10%	15	41.20%	40.17%	-1.03%	
30	53.29%	53.78%	0.49%					
87	52.16%	53.74%	1.58%				1831.11	
4	53.31%	53.47%	0.16%	16	39.06%	34.13%	-4.93%	
25	52.79%	53.26%						
88	44.85%	53.19%	8.34%	0.77	40.100	40.2004	0.770	
35	52.30%	52.99%	0.69%	1/	48.46%	49.23%	0.77%	
21 75	51.92%	52.94% 52.18%	1.02% 0.47%				-1	
50	52.08%	52.16%	-0.02%	18	54.96%	55.01%	0.05%	
94	51.57%	51.91%	0.34%					
67	51.72%	51.67%	-0.05%					
72	49.03%	51.49%	2.46%	19	53.32%	53.02%	-0.30%	
1	51.15%	51.22%			1-00		43.11	
93	44.73%	51.10%	6.37%	20		60.4601	4 000	
29	51.32%	50.97%	-0.35%	20	70.55%	69.46%	-1.09%	
70	49.74%	50.73% 49.59%	0.99% -0.09%					
49 68	49.68% 45.01%	49.59%	4.37%	21	49.86%	57.77%	7.91%	
85	48.91%	48.38%			15.00%	3,	/	
96	45.32%	46.40%	25, 325, 346				11	
51	44.01%	46.23%		22	47.56%	36.97%	-10.59%	
7	48.20%	45.38%					(11)	
54	45.08%	45.22%	0.14%					
81	36.16%	44.56%		And the second second	49.98%	51.75%	1.77%	
57	47.26%	44.50%					1	
92	50.79%	44.30%		MANAGEM CONTRACTOR	1		17.17	
20	43.71%	43.12%	-0.59%	24	46.72%	47.51%	0.79%	

DISTRICT	Current			DISTRICT	Current	New	Delta
74	43.78%	42.89%	-0.89%				
64	35.66%	42.72%	7.06%	25	44.88%	44.88%	0.00%
46	42.07%	42.39%	0.32%		1 13	1	- 11
79	37.49%	41.80%	4.31%		19.4		
71	41.68%	40.72%	-0.96%	26	20.85%	20.98%	0.13%
90	49.59%	40.40%	-9.19%		1, 10		
73	39.55%	40.16%	0.61%				1
45	42.39%	40.08%	-2.31%	27	38.38%	41.49%	3.11%
91	45.87%	39.57%	-6.30%	200			
80	42.15%	38.55%	-3.60%		1		
44	36.74%	37.22%	0.48%	28	64.48%	60.93%	-3.55%
95	36.02%	36.36%	0.34%		1	1	
65	45.44%	35.92%	-9.52%				ii
47	48.69%	33.35%	-15.34%	29	52.00%	52.47%	0.47%
66	59.12%	31.71%	-27.41%		i i i		
78	14.09%	30.84%	16.75%				
8	22.39%	30.48%	8.09%	30	50.38%	50.55%	0.17%
9	36.73%	29.14%	-7.59%				
19	29.15%	28.03%	-1.12%				
48	28.03%	27.56%	-0.47%	31	46.89%	44.94%	-1.95%
12	29.23%	27.51%	-1.72%				
17	13.21%	19.84%	6.63%			10 Tay 100	
11	11.91%	19.58%	7.67%	32	44.43%	44.63%	0.20%
77	23.88%	19.23%	-4.65%				
18	15.28%	14.94%	-0.34%				
76	24.29%	14.49%	-9.80%	33	68.84%	68.60%	-0.24%
10	10.27%	12.59%	2.32%				
16	14.21%	10.54%	-3.67%				3.423

Current M	ар		New Map		
	Assembly	Senate		Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	38	12
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1-54.9%):	14	5
Total GOP Seats (strong + lean):	40	15	Total GOP Seats (strong + lean):	52	17
Swing (48-52%):	19	5	New Swing (48-52%)	10	3
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	4	1
Strong DEM (-45%):	33	10	Strong DEM (-45%):	33	12
Total DEM Seats (strong + lean):	40	13	Total DEM Seats (strong + lean):	37	13

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1 1	10.0	Assembly		Case: 3:15-cv-00421-jdp Doci					
DISTRICT		THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN							
DISTRICT	ements and a second sec	processor and the second of th	Delta	DISTRICT	Current	New	Delta		
1	51.15%	58.28%	7.13%	1	54.04%	55.88%	1.84		
2	54.93%	48.90%	-6.03%						
3	56.10%	59.95%	3.85%						
4	53.31%	54.91%	1.60%	2	55.44%	57.84%	2.40		
5	53.74%	58.65%	4.91%						
6	59.77%	60.17%	0.40%			1 1000	1 11111		
7	48.20%	48.01%	-0.19%	3	40.52%	40.00%	-0.52		
8	22.39%	22.82%	0.43%				in ha		
9	36.73%	34.52%	-2.21%			1 1			
10	10.27%	33.07%	22.80%	4	17.58%	31.02%	13.44		
11	11.91%	30.48%	18.57%			6			
12	29.23%	29.01%	-0.22%						
13	43.67%	45.28%	1.61%	5	50.62%	49.98%	-0.64		
14	59.06%	57.34%	-1.72%			1 1 1 1	1 7 7 7		
15	48.21%	47.62%	-0.59%						
16	14.21%	14.26%	0.05%	6	14.12%	21.34%	7.22		
17	13.21%	24.94%	11.73%		14.12/0	21.34/0	1.22		
18	15.28%	AMARIN.							
	Andrew //	23.19%	7.91%	7	44 420/	44 4504	0.25		
19	29.15%	31.45%	2.30%	/	41.13%	41.45%	0.32		
20	43.71%	45.14%	1.43%						
21	51.92%	49.51%	-2.41%				1		
22	39.05%	25.68%	-13.37%	8	52.82%	48.86%	-3.96		
23	51.70%	46.50%	-5.20%		1 1 1	* 11 77			
24	67.29%	71.71%	4.42%		Design 1				
25	52.79%	49.48%	-3.31%	9	52.96%	49.17%	-3.79		
26	45.42%	46.38%	0.96%						
27	59.20%	51.22%	-7.98%						
28	54.85%	55.60%	0.75%	10	53.14%	53.19%	0.05		
29	51.32%	46.68%	-4.64%						
30	53.29%	57.21%	3.92%						
31	67.57%	69.18%	1.61%	11	67.64%	68.08%	0.44		
32	61.06%	61.62%	0.56%		07.0476	00.0070	0.7		
33	72.24%	71.77%	-0.47%				V. 1. (1)		
34	54.51%	48.62%	-5.89%	12	53.37%	51.36%	-2.01		
35	52.30%	50.09%	-2.21%	12	33.3770	31.30%	-2.0.1		
36	53.06%	54.77%		Para de la companya della companya d					
	Annual Committee (Co.)	CONTROL OF THE PARTY OF THE PAR	1.71%	40	50 220/	50.430/	0.00		
37	51.33%	49.82%	-1.51%	15	59.22%	60.12%	0.90		
38	65.80%	67.73%	1.93%						
39	60.35%	62.35%	2.00%		L				
40	58.50%	57.79%	-0.71%	14	55.86%	49.86%	-6.00		
11	60.60%	44.17%	-16.43%		1.0				
12	48.54%	48.23%	-0.31%				1		
13	44.14%	42.34%	-1.80%	15	41.20%	41.30%	0.10		
14	36.74%	38.88%	2.14%	1000					
15	42.39%	43.02%	0.63%				181 11		
16	42.07%	42.59%	0.52%	16	39.06%	38.13%	-0.93		
17	48.69%	47.09%	-1.60%						
18	28.03%	27.47%	-0.56%				1950/MI		
19	49.68%	49.84%	0.16%	17	48.46%	48.46%	0.00		
50	52.08%	51.88%	-0.20%		10.1070	10.1070	0.00		
51	44.01%	44.09%	0.08%				* 11		
52	57.39%	57.29%	-0.10%	19	54.96%	54.84%	-0.12		
The state of the s	PROPERTY AND ADDRESS OF THE PERSON OF THE PE	and assembly the control of the cont		10	34.90%	34.04%	-0.12		
53	62.74%	62.70%	-0.04%		11.1	10 6			
54	45.08%	44.00%	-1.08%	10	F2 2201	F2 0001			
55	49.34%	49.95%	0.61%	T3	53.32%	52.88%	-0.44		
56	61.05%	60.64%	-0.41%			1111			
7	47.26%	48.31%	1.05%		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
8	70.90%	70.35%	-0.55%	20	70.55%	69.15%	-1.40		
9	72.74%	69.94%	-2.80%			11.1			
i0	68.12%	67.37%	-0.75%		te P	1. 11			
i1	35.98%	42.56%	6.58%	21	49.86%	49.36%	-0.50		
52	44.35%	41.72%	-2.63%		1	F 8			
3	63.09%	61.66%	-1.43%			10.12	Call III		
64	35.66%	36.48%	0.82%	22	47.56%	46.30%	-1.26		
55	45.44%	44.02%	-1.42%						
6	59.12%	58.37%	-0.75%						
7	51.72%	51.10%	-0.62%	23	49.98%	49.21%	-0.77		
8	Maria Caracteria Control Control				43.36/6	43.21/0	-0.77		
The second second	45.01%	44.54% 51.90%	-0.47%		11 11 1				
9	54.06%	51.90%	-2.16%	74	AC 7001	40 500	1111000		
70	49.74%	49.42%	-0.32%	44	46.72%	46.56%	-0.16		

DISTRICT	Current	New	Delta	DISTRICT	Current		
72	49.03%	48.87%	-0.16%			NAME OF TAXABLE PARTY.	
73	39.55%	40.78%	1.23%	25	44.88%	45.31%	0.43%
74	43.78%	44.86%	1.08%		10.11	V. 1	1.0
75	51.71%	50.50%	-1.21%			F 12 12	4 4 1
76	24.29%	24.20%	-0.09%	26	20.85%	21.36%	0.51%
77	23.88%	26.21%	2.33%			11.11	4, 4
78	14.09%	13.34%	-0.75%		20.0		1. 1.
79	37.49%	38.52%	1.03%	27	38.38%	38.25%	-0.13%
80	42.15%	41.95%	-0.20%				
81	36.16%	34.87%	-1.29%		-		
82	58.59%	59.64%	1.05%	28	64.48%	65.01%	0.53%
83	69.70%	67.79%	-1.91%			1 11	
84	64.99%	66.69%	1.70%		-	111 6	
85	48.91%	56.47%	7.56%	29	52.00%	56.13%	4.13%
86	54.56%	56.80%	2.24%				
87	52.16%	54.92%	2.76%			-	
88	44.85%	45.13%	0.28%	30	50.38%	49.62%	-0.76%
89	55.76%	55.33%	-0.43%	10000			
90	49.59%	47.70%	-1.89%				-
91	45.87%	45.82%	-0.05%	31	46.89%	46.82%	-0.07%
92	50.79%	49.85%	-0.94%		1		
93	44.73%	45.40%	0.67%				
94	51.57%	47.65%	-3.92%	32	44.43%	44.43%	0.00%
95	36.02%	40.44%	4.42%				
96	45.32%	45.76%	0.44%				
97	59.96%	69.88%	9.92%	33	68.84%	71.46%	2.62%
98	70.96%	72.93%	1.97%				1
99	73.35%	71.84%	-1.51%				1 1111

-0.20%

41.68%

Current Ma	p		New Map		
Marie Land Wall and Control of the C	Assembly	Senate		Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	31	8
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1-54.9%):	3	3
Total GOP Seats (strong + lean):	40	15	Total GOP Seats (strong + lean):	34	11
Swing (48-52%):	19	5	New Swing (48-52%)	19	9
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	13	4
Strong DEM (-45%):	33	10	Strong DEM (-45%):	33	9
Total DEM Seats (strong + lean):	40	13	Total DEM Seats (strong + lean):	46	13

1.3	Cas	e: 3:1	L5-cv-				Joct	ımer	nt #: 1
OSTRA		Arran	Milwaulo	ee_Gaddie		THE REAL PROPERTY.	-		
i i	51.1	91 51.2	0.07	2002 K H	200s	2006	2003 R	2023	Cycles GOP 5
2	54.9	53.8	25 -L11	N R	R.	R	0	R	
4	53.3	_			A R	B	R	R	5
5	53.74	55.30	1.565	l H	3 B	0	0	R	5 2
7	59.77 48.30		9% -0.28		R	R	R	I R	. 5 0
8	22.35	21.2	-117	L DO	3	0	D	0	0
10	36.73				D	3.	D	0	. 0
11	11.91	% 17.5	5.725	0	0		0		6
13	29.23				2	2	0	0	0
14	59.00	H SAA	706 -4.660	2 2	R	R	R	9	0 5
15	48.21				D	0	2 D	100	S 9 0 0 0 0 0
17	13.21	1 22.95	9.749			0	D	D	C C
18	15.28 29.15				0	B - B -	D D	0	0
20	43.71	56 200 41.73	-1.90h	0	0	0	D	D	C
21 22	51.92 39.05	1 56.14	17.099		- R	9	R.	0	
23 24	51.70	61.82	10.125	A STATE OF THE STA	- 1	R	R .	A Residence	5.5
25	52.79	% 53.33	0.549		R D	R.	1 0		5
26 27	45.A2 58.20	54.99	9.579		D.	0	D	Con Resident	
28	54.85	S4.94	16 CL091		R	- A	R.	a a	5
30	51.32 53.29	50.92	-0.40%	- D	A.	A	R.	H	4
31	\$7.57	20 OS	SL -8.4930	R	_R	R	R	R	5
32	S1.06		% 1.08%	R.	R		2	A	5
34	54.51	\$3.00	% -1.51%	2	R	R	R	R	5
35 36	\$2.30 \$3.00			R	· · · · · · · · · · · · · · · · · · ·	R.	I R	A.	
37	51.33	55.61	4.28%	R	R	3	1 0	J as D	5
38 39	46.80°	67.24			R	R	R	R	5 5 5
40	58.50		4 -2.55%	. R.	N R	R	R.	2	5
42	48.54	42.99	-5.55%		R	R	R	1 5	5
40 41 42 43 44	44.141 36.749	44.591	0.45%	. 0	R	8	- D	- 6	3
4S.	42.399	53.84	11.45%	-0	0	0	0	R	2 2
46	42.079	44.57	2.50%	R	0	Q s	0	0	0
47 AB	28.039	27.245	-0.79%	0	- 0	R D	R	A	5 0 M 5 0 M 5 2 M 5 2 M 5 M 5 M 5 M 5 M 5 M 5 M 5
49	49.680			R	R R	B 3	0	A	3
51	44.013	47.131	3.12%	2	a a	0	100	R	3
52 53	57.399			R	2	. R.	R R	9.00	5
54	45.083	45.20	0.20%		R	D.	1 1		2
55 56	49.34% 61.05%	54.129		R	R	R	R	R	5
57. 54	47.269 20.909	46.AST	-0.81%	8.	R	R	0	O TO	3
59	22.749	\$1.529	-11.22%	R.	R	R.	RAN	R	5 5 5
61	35.90%	33.44%	3.20%	1	R	R	R	g	5
62	44.35%	B2.45%	18.10%	0.	0	D	0	0	0
64	63.09% 35.66%	56.789		R	Sea Russ	8	A STATE	and Referen	5
65	45.A4X	36.009	-9.40%	0	0.0	974	D	G C	0
67	59.17%	57.24%		R R	R	A R	8	R	5
69	45.01%	51.15%	6.14%	D	R	R	- C	R	4
	54.06%	53.57% 50.00%		R	R	2	R	0	5
70 71 72	41.68% 49.03%	40.95%	-0.73%	5	U.	D	0	5	0
73	39.55%	50.38% 40.05%	0.50%	2	0	0	0	R Date	1
74 75	43.78% 51.71%	45.03% 57.31%	1.25%	D		0		D	0
76	24.29%	20,80%	-3.49%	ם	D 10	0	0	R D	0
77 78 79 80 61 82	23.89% 14.09%	24.52% 27.18%	3.09%	D.	0 D	0	D	0	0
79	37.49%	36.70%	-0.79%	-0	0	0	0	0	0
61	42.15% 36.16%	39.44%	-2.71% 2.95%	0	B	D.	R	0	4
92 13	58.59%	55.72%	-2.87%	R	- A-	R-	Real	R	5.
BA	69.70% 6A.99%	70.25% 61.26%	-3.73%	R	R	R	A	A .	5
85	41.91%	47.54%	-1.37%	D			0	0	5 6
97	54.56% 52.16%	55.31% 53.42%	1.26%	R	R R	R	R	R	5
86 87 84 89	44.85%	53.47%	8.62%	Rose	9	2	0	n accept	5 3
90	55.76% 49.59%	56.58% 40.13%	-0.18% -9.46%	R	_ R	R R	R	R	5
12	45.87% 50.79%	44.45% 53.85%	-1,42%	- Paris	8	0	0	D .	C
13	44.73%	39.55%	3.06% -5.18%	R	R	R	0	E. R	3
21. 22. 23. 24. 25. 26. 27.	\$1.57% 36.02%	51.93% 36.26%	0.36%	R.	8	A	8.00	1	3 5 0
6	45.325	46.24%	0.92%	R R R	R	R	R	-R	0
8	59.96% 70.96%	67.39% 67.99%	2.43% -2.97%	R	R		8	A RESIDENCE	5.
3	23.35%	69.80%	-3.51%	R	R	R	R	R	5
				-	-		-		

Current Map		New Map	
Sefe GOP (SSSLe)	27	Safe GOP (55%4)	34
Lean GOP (52.1-54.9%):	13	Mew Lean GOP (52.1-54.9%):	2.0
Total GOP Seets (safe + leavi):	40	Total GOP Sests (safe + lean):	52
Salog (48-529):	19	Otour Swing [48-5291]	9
Lega DEM (45.1-47.550):	7	Plew Lean DEM (45.1-47.9%):	6
Safe DEM (-450):	33	Safe DEM (-4S%):	32
Total CIEM Seets (sufe + lean):	40	Total DEM Seses (safe + loan):	39





			Milwauke	e_Gaddie_	4_16_11_	V1_B			
DISTRICT	Current	New	Delta	2002	2004	2006	2008	2010	Cycles GOP
1	51.15%	The second secon	0.07%	R	R	R	R	R	5
3	54.93% 56.10%		-1.11% -0.29%	R	R	R	D R	R	5
4	53.31%		0.45%	R	R	R	R	R	5
5	53.74%		1.56%	R	D	D	D	R	2
6	59.77% 48.20%	59.49% 44.42%	-0.28% -3.78%	R	R	R	R	R	5
8	22.39%		-3.78%	D	D	D D	D D	D	0
9	36.73%		-1.06%	D	D	D	D	D	0
10	10.27%		6.25%	D	D	D	D	Ð	0
11	11.91%		5.72% -4.31%	D D	D	D	D	D	0
13	43.67%		11.90%	D	D D	D D	D D	D D	0
14	59.06%		-4.66%	R	R	R	R	R	5
15 16	48.21% 14.21%		6.40%	0	.0	0	D	D	0
17	13.21%		-1.19% 9.74%	D D	D D	D D	D D	D D	0
18	15.28%	15.86%	0.58%	D	D	Ď	D	D	0
19 20	29.15% 43.71%		-2.44%	D	D	D	D	D	0
21	51.92%	41.73% 52.85%	-1.98% 0.93%	G G	D R	D R	D R	R	0 4
22	39.05%	56.14%	17.09%	D	D	0	D	D	0
23	51.70%		10.12%	R	R	R	R	R	5
25	67.29% 52.79%	55.27% 53.33%	-12.02% 0.54%	R D	R	R	R	R	5 0
26	45.42%	54.99%	9.57%	D	D	D	D	R	1
27	59.20%	64.23%	5.03%	R	R	R	R	R	5
28	54.85% 51.32%	54.94% 50.92%	0.09% -0.40%	R	R	D R	D R	R	3 4
30	53.29%	53.81%	. 0.52%	R	R	R	R	R	5
31	67.57%	59.08%	-8.49%	R	R	R	R	R	5
32 33	61.06% 72.24%	62.14% 72.63%	1.08%	R	R	R	R	R	5 5
34	54.51%	53.00%	-1.51%	R	R	R	R	R	5
35	52.30%	52.43%	0.13%	R	R	R	R	R	5
36	53.06% 51.33%	56.44% 55.61%	3.38% 4.28%	R R	R	R	R	R	5 2
38	65.80%	59.84%	-5.96%	R	R	R	R	R	5
39	60.35%	62.24%	1.89%	R	R	R	R	R	5
40	58.50% 60.60%	55.95% 56.99%	-2.55% -3.61%	R	R	R R	R R	R R	5
42	48.54%	42.99%	-5.55%	R	R	R	D.	D	3
43	44.14%	44.59%	0.45%	R	R	D	D	R	3
44	36.74% 42.39%	37.27% 53.84%	0.53% 11.45%	D D	D D	Ð	D	R	1
46	42.07%	44.57%	2.50%	D	D	D D	D D	R	1 0
47	48.69%	39.36%	-9.33%	R	R	R	R	R	5
48	28.03% 49.68%	27.24% 49.93%	-0.79% 0.25%	D R	D	D	D	D	0
50	52.08%	49.93% 51.77%	-0.31%	R	R R	D R	D R	R	3 5
51	44.01%	47.13%	3.12%	R	R	D	D	R	3
52 53	57.39% 62.74%	57.88% 63.58%	0.49%	R	R	R	R	R	5
54	45.08%	45.28%	0.84%	R R	R	R	R	R.	5 2
55	49.34%	57.19%	7.85%	R	R	R	R	R	5
56 57	61.05%	54.12%	-6.93%	R	R	R	R	R	5
58	47.26% 70.90%	46.45% 70.79%	-0.81% -0.11%	R	R	R	D R	R	3 5
59	72.74%	61.52%	-11.22%	R	R	R	R	R	5
60 61	68.12% 35.98%	71.32%	3.20%	R	R	R	R	R	5
62	44.35%	33.44% 62.45%	-2.54% 18.10%	D D	D D	D D	D D	D D	0
63	63.09%	56.78%	-6.31%	R	R	R	R	R	5
64 65	35.66%	42.16%	6.50%	D	D	D	D	D	0
66	45.44% 59.12%	36.00% 57.24%	-9.44% -1.88%	D R	D R	D R	D R	D R	5
67	51.72%	51.63%	-0.09%	R	R	R	-1	R	5
68	45.01%	51.15%	6.14%	D	R	R	D	R	3
69 70	54.06% 49.74%	53.57% 50.00%	-0.49% 0.26%	R D	R	R	R D	R	5
71	41.68%	40.95%	-0.73%	D	D.	D	D	D	0
72	49.03%	50.38%	1.35%	D	D	D	D	R	1
73 74	39.55% 43.78%	40.05% 45.03%	0.50% 1.25%	D D	D D	D D	D D	D D	0
75	51.71%	52.31%	0.60%	D	0 0	D	D	R	1
76	24.29%	20.80%	-3.49%	D	0	D	D	D	0
77 78	23.88%	24.52% 17.18%	0.64% 3.09%	D D	D D	D D	D D	D D	0
79	37.49%	36.70%	-0.79%	D	D	8	0	D	0
80	42.15%	39.44%	-2.71%	R	R	R	R	D	4
81 82	36.16% 58.59%	39.11% 55.72%	2.95% -2.87%	D .	D	D	D	0	. 0
83	69.70%	70.25%	0.55%	R R	R R	R	R	R R	5
84	64.99%	61.26%	-3.73%	R	R	R	R	R	5
85 86	48.91% 54.56%	47.54% 55.31%	-1.37%	D	D	D	0	0	0
87	54.56%	55.31% 53.42%	0.75% 1.26%	R	R R	R	R R	R R	5
88	44.85%	53.47%	8.62%	R	R	D	D	R	3
89	55.76%	55.58%	-0.18%	R	R	R	R	R	5
90 91	49.59% 45.87%	40.13% 44.45%	-9.46% -1.42%	R	R	R	Ŕ	R	5
92	50.79%	53.85%	3.06%	R	R	R	D D	D	3
93	44.73%	39.55%	-5.18%	R	R	D	D	R	3
94 95	51.57% 36.02%	51.93% 36.26%	0.36% 0.24%	R	R	R	R	R	5
96	45.32%	46.24%	0.24%	R	D R	D R	D R	D R	0 5
97	59.96%	62.39%	2.43%	R	R	R	R	R	5
98 99	70.96% 73.35%	67.99% 69.84%	-2.97% -3.51%	R	R	R	R	R	5
	13.33%	03.04%	-3.51%	A CONTRACTOR	R	R	R	R	5

Current Map		New Map				
Safe GOP (55%+)	27	Safe GOP (55%+)	34			
Lean GOP (52.1-54.9%):	13	New Lean GOP (52.1-54.9%):	18			
Total GOP Seats (safe + lean):	40	Total GOP Seats (safe + lean):	52			
Swing (48-52%): 19		New Swing (48-52%)	9			
Lean DEM (45.1-47.9%):	7	New Lean DEM (45.1-47.9%);	6			
Safe DEM (-45%):	33	Safe DEM (-45%):	32			
Total DEM Seats (safe + lean):	40	Total DEM Seats (safe + lean):	38			



Gmail - from prof gaddie



Adam Foltz <adamfoltz@gmail.com>

### from prof gaddie

joseph handrick <joeminocqua@msn.com>

Wed, Apr 20, 2011 at 7:34 AM

To: adam foltz <adamfoltz@gmail.com>, tad ottman <tottman@gmail.com>

SEE Keith's comments below.

From: rkqaddie@ou.edu To: joeminocqua@msn.com

Subject: RE: Milwaukee county elections Date: Wed, 20 Apr 2011 03:47:20 +0000

Hey Joe-

I went ahead and ran the regression models for 2006, 2008, and 2010 to generate open seat estimates on all of the precincts. They expected GOP open seat assembly vote using the equations correlates at .96 with the 2004-2010 composite, and at a .93 level with the 2006-2010 state constitutional office composite. Both of them are running a little strong relative to one cluster of precincts -- I'll look and see if they are up north.

But, at this point, if you asked me, the power of the relationships indicates that the partisanship proxy you are using (all races) is an almost perfect proxy for the open seat vote, and the best proxy you'll come up with.

This seems to pretty much wraps up the partisanship measure debate.

Have Jim call me if he needs anything. Otherwise, I'll be tweaking the polarization analysis.

Best. Keith

Ronald Keith Gaddie Professor of Political Science Editor, Social Science Quarterly The University of Oklahoma 455 West Lindsey Street, Room 222 Norman, OK 73019-2001 Phone 405-325-4989

Fax 405-325-0718

E-mail: rkgaddie@ou.edu

http://faculty-staff.ou.edu/G/Ronald.K.Gaddie-1

http://socialsciencequarterly.org

From: joseph handrick [joeminocqua@msn.com]

Sent: Tuesday, April 19, 2011 9:33 PM

To: Gaddie, Ronald K.

Subject: RE: Milwaukee county elections

We looked at the different combos today.





2/19/11

Gmail - from prof gaddie

The 2006 and 2010 races combined tilt too much to the GOP. I thought 06 and 10 would balance but they don't. The northern seats were especially out of whack.

So I had Tad do a composite with the 2006 and 2010 state races and all the federal races from 04 to 2010 (in other words, all statewide races from 04 to 2010). This seems to work well both in absolute terms as well as seats in relation to each other.

From: rkgaddie@ou.edu

To: joeminocqua@msn.com

Subject: RE: Milwaukee county elections Date: Wed, 20 Apr 2011 02:18:46 +0000

Good. I am close to having a partisan baselining for you.

Ronald Keith Gaddie Professor of Political Science Editor, Social Science Quarterly The University of Oklahoma 455 West Lindsey Street, Room 222 Norman, OK 73019-2001 Phone 405-325-4989

Fax <u>405-325-0718</u> E-mail: <u>rkgaddie@ou.edu</u>

http://faculty-staff.ou.edu/G/Ronald.K.Gaddie-1

http://socialsciencequarterly.org

41.14			Tean	m Map				
		Assembly				Senate		
DISTRICT	Current	lien (a)	Delta	DISTRICT	Current	New	Delta	
1	51.15%		-0.09%	1	54.04%	53.73%	-0.31%	
3	56.10%		-0.52%					
4	53.31%		0.16%	2	55.44%	55.23%	-0.21%	
5	53.74%		0.54%	MANAGE T	-			
6	59.77%		-1.44%		40.52%	20.420/	-2.40%	
2	48.20%		-2.82% 8.09%	3	40.52%	38.12%	-2.40%	
9	36.73%		-7.59%					
10	10.27%		2.32%	4	17.58%	19.63%	2.05%	
11	11.91%		7.67%					
12	29.23%		-1.72%	ON THE				
13	43.67%		15.00%	5	50.62%	57.72%	7.10%	
14	59.06%		-0.42% 7.27%	Service State				
16	14.21%		-3.67%	6	14.12%	15.55%	1.43%	
17	<b>88</b> 13.21%		6.63%					
18	<b>15.28%</b>		-0.34%	16/27/07/0				
19	29.15%		-1.12%	7	41.13%	40.53%	-0.60%	
20	43.71%		-0.59% 1.02%					
22	31.92%		27.77%	2	52.82%	60.88%	8.06%	
23	51.70%		5.94%	6.5/m2				
24	67.29%		-8.80%	DATE OF				
25	52.79%		0.47%	9	52.96%	55.19%	2.23%	
26	45.42%		10.55%	BOOK ON				
28	59.20%		-3.01% 0.15%	10	53.14%	53.32%	0.18%	
29	51.32%		-0.35%	5153 (S) V	33.2.7/0	33.32/0	0.2070	
30	53.29%	53.78%	0.49%	VOLUMEN.				
31	67.57%		-11.24%	11	67.64%	60.13%	-7.51%	
32	61.06%		1.22%	100000				
33	72:24%		-10.43% 0.71%	17	53.37%	54.39%	1.02%	
35	52.30%		0.69%		33.3776	34.3376	1.0276	
36	53.06%		1.78%	THE SECOND				
37	51.33%		6.78%	13	59.22%	60.17%	0.95%	
38	65.80%		-5.35%					
39 40	60.35%		1.65% -0.43%	14	55.86%	56.02%	0.16%	
41	60.60%		-5.44%	((G)/2/G)	33.8078	30.0276	0.10%	
42	48.54%		6.40%	0.50				
43	44.14%		-1.08%	15	41.20%	40.17%	-1.03%	
44	36.74%		0.48%					
45 46	42.39%		-2.31% 0.32%	16	39.06%	34.13%	-4.93%	
47	48.69%		-15.33%	10	39.00%	34.13%	-4,93%	
48	28.03%		-0.47%	ALC: NO.				
49	49.68%	49.59%	-0.09%	17	48.46%	49.23%	0.77%	
50	52.08%		-0.02%	0.57(20)				
51 52	44.01%		2.22% 1.67%	18	54.96%	55.01%	0.05%	
53	62.74%		-0.89%	10	34.90%	33.01%	0.05%	
54	45.08%		0.14%					
55	49.34%		7.09%	19	53.32%	53.02%	-0.30%	
56	61.05%		-3.46%					
58	47.26%		-2.76% -0.36%	20	70.55%	69.46%	-1.09%	
59	72.74%		-4.43%		70.5570	03.40/0	1.0370	
60	68.12%		1.40%					
61	35.98%		21.24%	21	49.86%	57.77%	7.91%	
62	44.35%		12.21%					
63 64	63.09%		-3.45% 7.06%	72	47.56%	36.97%	-10.59%	
65	45.44%		-9.52%	endia.				
66	59.12%	31.71%	-27.41%	10 TO				
67	51.72%	51.67%	-0.05%	23	49.98%	51.75%	1.77%	
68 69	45.01%		4.37% 0.10%					
70	49.74%		0.10%	24	46.72%	47.51%	0.79%	
71	41.68%		-0.96%	8.27/E/39				
72	49.03%	51.49%	2.46%					
73	39.55%		0.61%	25	44.88%	44.88%	0.00%	
74 75	43.78%		-0.89% 0.47%					
76	24.29%			26	20.85%	20.98%	0.13%	
77,	23.88%	<b>18.90%</b>	-4.98%					
78	14.09%		17.29%					
79	37.49%		4.28%	47	38.38%	41.48%	3.10%	
EO	42.15% 36.16%		-3.60% 8.40%					
82	58.59%	57.08%		28	64.48%	60.93%	-3.55%	
83	69.70%	68.31%	-1.39%					
84	64.99%		-7.89%					
BS	48.91%	48.38%	-0.53%	29	52.00%	52.47%	0.47%	
85 87	54.56% 52.16%	55.08%	0.52% 1.58%	STATE OF THE STATE				
83	44.85%	53.74%		30	50.38%	50.55%	0.17%	
29	55.76%	55.73%	-0.03%					
90	49.59%		-9.19%					
91	45.87%	39.57%		31	46.89%	44.94%	-1.95%	
92	50.79%	44.30%	-6.49%					
93 94	44.73% 51.57%	51.10%	6.37% 0.34%	32	44.43%	44.63%	0.20%	
95	36.02%	36.36%	0.34%	17.0257	-4.43/0	.4.03/6	3.2078	
96	45.32%	46.40%	1.08%					
97	59.96%	62.91%		33	68.84%	68.60%	-0.24%	
98	70.96%	74.85%	3.89%					
99	73.35%	67.02%	-6.33%	The same of				

Current	Assembly	Senate		Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	38	12
Lean GOP (52-54.9%):	13	8	New Lean GOP (52-54.9%):	14	5
Total GOP Seats (safe + lean):	40	15	Total GOP Seats (safe + lean):	52	17
Swing (48-52%):	19	5	New Swing (48-52%)	10	3
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	4	1
Safe DEM (-45%):	33	10	Safe DEM (-45%):	33	12
Total DEM Seats (safe + lean):	40	13	Total DEM Seats (safe + lean):	37	13



t. t	,		Tear	n Map - l	Ranking	0421		
		Assen	nbly			Sen	-	
	DISTRICT	Current 70.96%	New 74 939/	Delta 2 979/	DISTRICT	Current	New	Delta
1 2	93 59	70.96%	74.83% 70.55%	3.87% -0.35%	20	68.84% 70.55%	68.56% 68.46%	-0.28%
3	24	67.29%	69.52%	2.23%	8	52.82%	61.64%	8.82%
4	83	69.70%	68.35%	-1.35%	28	64.48%	60.90%	-3.58%
5	59	72.74%	68.26%	-4.48%	13	59.22%	60.34%	1.12%
6	99 60	73.35% 68.12%	66.88%	-6.47% -1.30%	11	67.64% 50.62%	60.14% 57.79%	-7.50% 7.17%
8	97	59.96%	63.05%	3.09%	21	49.86%	57.77%	7.17%
9	32	61.06%	62.06%	1.00%	14	55.86%	55.96%	0.10%
10	39	60.35%	62.00%	1.65%	2	55.44%	55.23%	-0.21%
11	33	72.24%	61.92%	-10.32%	9	52.96%	55.19%	2.23%
12 13	37	62.74% 51.33%	61.81%	-0.93% 9.25%	18	54.96% 53.37%	55.01% 54.43%	1.06%
14	63	63.09%	59.64%	-3.45%	1	54.04%	53.73%	-0.31%
15	52	57.39%	59.06%	1.67%	10	53.14%	53.31%	0.17%
16	14	59.06%	58.76%	-0.30%	19	53.32%	53.02%	-0.30%
17 18	13 23	43.67%	58.68% 58.51%	15.01% 6.81%	29	52.00% 49.98%	52.52% 51.69%	0.52% 1.71%
19	38	65.80%	58.46%	-7.34%	30	50.38%	50.55%	0.17%
20	6	59.77%	58.33%	-1.44%	17	48.46%	49.23%	0.77%
21	22	39.05%	57.63%	18.58%	24	46.72%	47.39%	0.67%
22	56 40	61.05%	57.55% 57.51%	-3.50% -0.99%	25	46.89% 44.88%	44.93% 44.84%	-1.96% -0.04%
24	61	35.98%	57.23%	21.25%	32	44.43%	44.63%	0.20%
25	82	58.59%	57.13%	-1.46%	27	38.38%	40.98%	2.60%
26	63	64.99%	56.94% 56.56%	-8.05% 12.21%	15	41.13% 41.20%	40.53% 39.51%	-0.60% -1.69%
27	55	44.35%	56.43%	7.09%	15 3	40.52%	39.51%	-2.40%
29	31	67.57%	56.41%	-11.16%	22	47.56%	36.97%	-10.59%
30	27	59.20%	56.13%	-3.07%	16	39.06%	35.24%	-3.82%
31 32	26 41	45.42%	56.03% 55.79%	10.61% -4.81%	26	20.85% 17.58%	20.98% 19.63%	0.13% 2.05%
33	89	55.76%	55.73%	-0.03%	6	14.12%	15.57%	1.45%
34	3	56.10%	55.58%	-0.52%				
35	15	48.21%	55.52%	7.31%				
36 37	86	54.51% 54.56%	55.22% 55.11%	0.71%	125 (15 (15 (15 (15 (15 (15 (15 (15 (15 (1			
38	28	54.85%	54.99%	0.14%				
39	2	54.93%	54.84%	-0.09%				
40	36	53.06%	54.84%	1.78%			-	
41 42	42 5	48.54%	54.53%	6.09% 0.54%				
43	87	52.16%	53.92%	1.76%	VARIABLE OF			
44	69	54.06%	53.85%	-0.21%				
45	30	53.29%	53.80%	0.51%				
46 47	25	53.31%	53.47% 53.27%	0.16%				
48	88	44.85%	53.19%	8.34%				
49	35	52.30%	53.08%	0.78%				
50 51	75 75	51.92% 51.71%	52.94% 52.14%	1.02% 0.43%				
52	94	51.57%	51.91%	0.43%				
53	50	52.08%	51.87%	-0.21%				
54	67	51.72%	51.67%	-0.05%	E((0)/3)//6			
55 56	93	51.15%	51.22% 51.15%	0.07% 6.42%				
57	29	51.32%	50.94%	-0.38%				
58	72	49.03%	50.42%	1.39%				
59 60	70 49	49.74%	50.17% 49.75%	0.43%				
61	68	49.68%	49.66%	0.07% 4.65%				
62	85	48.91%	48.31%	-0.60%				
63	96	45.32%	46.40%	1.08%				
64 65	51	44.01%	46.28% 45.35%	2.27% -2.85%				
66	54	45.20%	45.26%	0.18%				
67	46	42.07%	45.19%	3.12%				
68		36.16%	44.56%	8.40%				
	57 92	47.26%	44.49%	-2.77% -6.49%				
	20	43.71%	43.06%	-0.65%	(DVC)(20)			
72	64	35.66%	42.72%	7.06%	(E/X/05/200)			
	74 43	43.78%	42.43%	-1.35%	Moteration and Committee of the Committe			
	71	44.14%	41.95%	-2.18% 0.24%				
76	73	39.55%	40.52%	0.97%	Market Market			
	90	49.59%	40.40%	-9.19%				
78 79	79 91	37.49%	40.09%	2.60% -6.34%	CASCINETE CONTRACTOR			
	80	42.15%	38.65%	-3.50%				
81	45	42.39%	38.18%	-4.21%		7		
	44	36.74%	38.07%	1.33%				
	95 65	36.02% 45.44%	36.36%	0.34% -9.52%	(20)			
	47	48.69%	34.47%	-14.22%				
86	66	59.12%	31.71%	-27.41%	9.609.475			
	78	14.09%	30.86%	16.77%				
NAME OF TAXABLE PARTY.	9	22.39%	30.48%	8.09% -7.59%				
90		29.15%	28.03%	-1.12%	1550//256			
91	12	29.23%	27.51%	-1.72%				
	48 17	28.03% 13.21%	27.45%	-0.58% 6.67%				
CAPITAL MARKETINE		# 13.21% # 11.91%	19.88%	7.67%				
95		23.88%	19.23%	-4.65%				
96		13.2070	14.94%	-0.34%				
97 98	76 10	F-11.E370	14.46% 12.59%	-9.83% 2.32%				
99		B 14.21%	25.00/0	-3.67%				

	Assembly	Senate		Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	37	12
Lean GOP (52.1-54.9%):	13	8	New Lean GOP (52.1-54.9%):	14	5
Total GOP Seats (safe + lean):	40	15	Total GOP Seats (safe + lean):	51	17
Swing (48-52%):	19	5	New Swing (48-52%)	11	3
Lean DEM (45.1-47.9%):	7	3	New Lean DEM (45.1-47.9%):	5	1
Safe DEM (-45%):	33	10	Safe DEM (-45%):	32	12
Total DEM Seats (safe + lean):	40	13	Total DEM Seats (safe + lean):	37	13

Ð.			Tear	n Map		70421	Jab
DISTRICT	Current	Assembly	D-sta	DISTRICT	Current	Senate	Celta
1	51.15%		0.07%	1	54.04%	53.73%	-0.31%
2	54.93%		-0.09%				
3 4	56.10%		-0.52% 0.16%	3	55.44%	55.23%	-0.21%
5	53.74%		0.16%		33.44%	33.23%	-0.21%
6	59.77%	58.33%	-1.44%				
8	48.20%		-2.82% 8.09%	5	40.52%	38.12%	-2.40%
9	36.73%	29.14%	-7.59%	Carrier S			
10	10.27%	<b>12.59%</b>	2.32%	4	17.58%	19.63%	2.05%
11	11.91%	19.58% 27.51%	7.67%				
13	43.67%	58.67%	15.00%	5	50.62%	57.72%	7.10%
14	59.06%		-0.42% 7.27%	March 1997			
16	48.21%		7.27% -3.67%	6	14.12%	15.55%	1.43%
17	13.21%	<b>19.84%</b>	6.63%				
13	15.28% 29.15%	14.94% 28.03%	-0.34% -1.12%	7	41.13%	40.53%	-0.60%
20	43.71%	43.12%	-0.59%	12000	12.23/0	10.3370	0.0076
21	51.92%	52.94%	1.02%	2	E2 020/	60 0004	9.000
22	39.05%	57.64% 58.49%	18.59% 6.79%	9	52.82%	60.88%	8.06%
24	67.29%	66.82%	-0.47%	120/18			
25 26	52.79% 45.42%	53.26% 55.97%	0.47% 10.55%	9	52.96%	55.19%	2.23%
27	59.20%	56.19%	-3.01%				
28	54.85%	55.00%	0.15%	10	53.14%	53.32%	0.18%
30	51.32% 53.29%	50.97%	-0.35% 0.49%				
31	67.57%	56.41%	-11.16%	11	67.64%	60.14%	-7.50%
32	61.06%	62.07%	1.01%	7/////////			
34	72.24% 54.51%	61.92% 55.22%	-10.32% 0.71%	12	53.37%	54.39%	1.02%
35	52.30%	52.99%	0.69%				
36 37	53.06% 51.33%	54.84% 58.11%	1.78% 6.78%	13	59.22%	60.17%	0.95%
38	65:80%	60.45%	-5.35%		39.22%	30.17%	0.95%
39	60.35%	62.00%	1.65%	2000			
40	58.50%	58.07% 55.16%	-0.43% -5.44%	11	55.86%	56.02%	0.16%
42	48.54%	54.94%	6.40%				
43	44.14%		-2.32%	15	41.20%	39.37%	-1.83%
44	36.74%	38.06%	1.32% -4.50%				
45	42.07%	44.95%	2.88%	16	39.06%	34.74%	-4.32%
43	48.69%	32.92% 27.56%	-15.77% -0.47%				
49	49.68%	49.59%	-0.47%	17	48.46%	49.23%	0.77%
50	52.08%	52.06%	-0.02%	773245K			
51 52	44.01%	46.23%	2.22% 1.67%	18	54.96%	55.01%	0.05%
53	62.74%	61.85%	-0.89%		34.50%	33.01/6	0.0376
54	45.08%	45.22% EC 43%	0.14%	10	F2 2204	E3 0324	0.3001
55 56	49,34%	56.43% 57.59%	7.09% -3.46%	19	53.32%	53.02%	-0.30%
57	47.26%	44.50%	-2.76%				
58 59	70.90% 72.74%	70.54% 68.31%	-0.36% -4.43%	20	70.55%	69.46%	-1.09%
60	68.12%	69.52%	1.40%	0/45333			
51	35.98%	57.22%	21.24%	21	49.86%	57.77%	7.91%
63	44.35%	56.56% 59.64%	12.21% -3.45%				
64	35.66%	42.72%	7.06%	22	47.56%	36.97%	-10.59%
65	45.44%	35.92%	-9.52% -27.41%				
67	59.12% 51.72%	51.67%	-27.41% -0.05%	23	49.98%	51.75%	1.77%
68	45.01%	49.38%	4.37%				
69 70	54.06% 49.74%	54.16% 50.73%	0.10%	24	46.72%	47.51%	0.79%
71	41.68%	40.72%	-0.96%	1000000	70.72.70	47.31/0	5.7576
72	49.03%	51.49%	2.46%	31	44.0001	41.000	0.001
73 74	39.55% 43.78%	40.16%	0.61% -0.89%	25	44.88%	44.88%	0.00%
75	51.71%	52.18%	0.47%	05355			
76	24.29%	14.48%	-9.81%	26	20.85%	20.98%	0.13%
77 78	23.88% 14.09%	18.90% 31.38%	-4.98% 17.29%				
79	37.49%	40.62%	3.13%	27	38.38%	41.56%	3.18%
80	42.15% 36.16%	39.90% 44.56%	-2.25% 8.40%				
82	58.59%	57.08%	-1.51%	28	64.48%	60.95%	-3.53%
83	69.70%	68.32%	-1.38%				
84 85	64.99% 48.91%	57.10% 48.38%	-7.89% -0.53%	29	52.00%	52.47%	0.47%
36	54.56%	55.08%	0.52%	10,500	22.00/0	22.47/0	0.4770
87	52.16%	53.74%	1.58%	20	FO 2024	F0	
89	44.85%	53.19%	-0.03%	Uc	50.38%	50.55%	0.17%
90	49.59%	40.40%	-9.19%	74 (A) (A)			
91	45.87%	39.57%	-6.30% -6.49%	31	46.89%	44.94%	-1.95%
93	50.79%	44.30%	-6.49% 6.37%	11/2/25			
94	51.57%	51.91%	0.34%	32	44.43%	44.63%	0.20%
95	36.02%	36.36%	0.34%				
96 97	45.32%	46.40%	1.08% 2.96%	33	68.84%	68.60%	-0.24%
98	70.96%	74.85%	3.89%				
99	73.35%	67.02%	-6.33%				
	No. 14-24 Co. Co.						

	Assembly	Senate	New Ma	Assembly	Senate
Strong GOP (55%+)	27	7	Strong GOP (55%+)	38	12
Lean GOP (52-54.9%):	13	8	New Lean GOP (52-54.9%):	14	5
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